Appendix for test report

1Appendix_A: Effective (Isotropic) Radiated Power Output Data

Part I - Test Results

Test Band(LTE)	Test Mode	Test Bandwidth	Test Channel	Test RB	Measured[dBm]	ERP [dBm]	Limit [dBm]	Verdict
BAND38	LTE/TM1	5	LCH	RB1#0	22.7	21.8	33	PASS
				RB1#13	22.94	22.04	33	PASS
				RB1#24	22.63	21.73	33	PASS
				RB12#0	22.1	21.2	33	PASS
				RB12#6	22.19	21.29	33	PASS
				RB12#13	22.09	21.19	33	PASS
				RB25#0	22	21.1	33	PASS
			MCH	RB1#0	23.38	22.48	33	PASS
				RB1#13	23.63	22.73	33	PASS
				RB1#24	23.19	22.29	33	PASS
				RB12#0	22.65	21.75	33	PASS
				RB12#6	22.7	21.8	33	PASS
				RB12#13	22.55	21.65	33	PASS
				RB25#0	22.59	21.69	33	PASS
			HCH	RB1#0	23.52	22.62	33	PASS
				RB1#13	23.64	22.74	33	PASS
				RB1#24	23.08	22.18	33	PASS
				RB12#0	22.84	21.94	33	PASS
				RB12#6	22.87	21.97	33	PASS
				RB12#13	22.6	21.7	33	PASS
				RB25#0	22.57	21.67	33	PASS
		10	LCH	RB1#0	22.6	21.7	33	PASS
				RB1#25	22.96	22.06	33	PASS
				RB1#49	22.68	21.78	33	PASS
				RB25#0	22.03	21.13	33	PASS
				RB25#13	22.24	21.34	33	PASS
				RB25#25	22.28	21.38	33	PASS
				RB50#0	22.16	21.26	33	PASS
			MCH	RB1#0	23.24	22.34	33	PASS
				RB1#25	23.62	22.72	33	PASS
				RB1#49	23.14	22.24	33	PASS

				RB25#0	22.52	21.62	33	PASS
				RB25#13	22.6	21.7	33	PASS
				RB25#25	22.51	21.61	33	PASS
				RB50#0	22.54	21.64	33	PASS
			HCH	RB1#0	23.34	22.44	33	PASS
				RB1#25	23.62	22.72	33	PASS
				RB1#49	23.05	22.15	33	PASS
				RB25#0	22.67	21.77	33	PASS
				RB25#13	22.8	21.9	33	PASS
				RB25#25	22.59	21.69	33	PASS
				RB50#0	22.5	21.6	33	PASS
		15	LCH	RB1#0	22.51	21.61	33	PASS
				RB1#38	23.1	22.2	33	PASS
				RB1#74	22.6	21.7	33	PASS
				RB36#0	22.02	21.12	33	PASS
				RB36#18	22.39	21.49	33	PASS
				RB36#39	22.19	21.29	33	PASS
				RB75#0	22.03	21.13	33	PASS
			MCH	RB1#0	23	22.1	33	PASS
				RB1#38	23.62	22.72	33	PASS
				RB1#74	22.93	22.03	33	PASS
				RB36#0	22.44	21.54	33	PASS
				RB36#18	22.57	21.67	33	PASS
				RB36#39	22.39	21.49	33	PASS
				RB75#0	22.44	21.54	33	PASS
			HCH	RB1#0	23.19	22.29	33	PASS
				RB1#38	23.74	22.84	33	PASS
				RB1#74	22.93	22.03	33	PASS
				RB36#0	22.56	21.66	33	PASS
				RB36#18	22.71	21.81	33	PASS
				RB36#39	22.36	21.46	33	PASS
				RB75#0	22.46	21.56	33	PASS
		20	LCH	RB1#0	22.77	21.87	33	PASS
				RB1#50	23.31	22.41	33	PASS
				RB1#99	22.9	22	33	PASS
				RB50#0	22.22	21.32	33	PASS
				RB50#25	22.4	21.5	33	PASS
				RB50#50	22.46	21.56	33	PASS
				RB100#0	20.98	20.08	33	PASS
			MCH	RB1#0	23.14	22.24	33	PASS
				RB1#50	23.67	22.77	33	PASS
				RB1#99	23.16	22.26	33	PASS

				RB50#0	22.65	21.75	33	PASS
				RB50#25	22.73	21.83	33	PASS
				RB50#50	22.54	21.64	33	PASS
				RB100#0	20.18	19.28	33	PASS
			HCH	RB1#0	23.42	22.52	33	PASS
				RB1#50	23.84	22.94	33	PASS
				RB1#99	23.29	22.39	33	PASS
				RB50#0	22.7	21.8	33	PASS
				RB50#25	22.89	21.99	33	PASS
				RB50#50	22.5	21.6	33	PASS
				RB100#0	21.34	20.44	33	PASS
LTE/TM2		5	LCH	RB1#0	21.95	21.05	33	PASS
				RB1#13	22.13	21.23	33	PASS
				RB1#24	21.8	20.9	33	PASS
				RB12#0	21.05	20.15	33	PASS
				RB12#6	21.11	20.21	33	PASS
				RB12#13	21.06	20.16	33	PASS
				RB25#0	20.88	19.98	33	PASS
			MCH	RB1#0	22.66	21.76	33	PASS
				RB1#13	22.89	21.99	33	PASS
				RB1#24	22.45	21.55	33	PASS
				RB12#0	21.56	20.66	33	PASS
				RB12#6	21.63	20.73	33	PASS
				RB12#13	21.46	20.56	33	PASS
				RB25#0	21.44	20.54	33	PASS
			HCH	RB1#0	22.92	22.02	33	PASS
				RB1#13	23.07	22.17	33	PASS
				RB1#24	22.54	21.64	33	PASS
				RB12#0	21.52	20.62	33	PASS
				RB12#6	21.56	20.66	33	PASS
				RB12#13	21.34	20.44	33	PASS
				RB25#0	21.28	20.38	33	PASS
		10	LCH	RB1#0	21.88	20.98	33	PASS
				RB1#25	22.26	21.36	33	PASS
				RB1#49	21.95	21.05	33	PASS
				RB25#0	20.89	19.99	33	PASS
				RB25#13	21.14	20.24	33	PASS
				RB25#25	21.19	20.29	33	PASS
				RB50#0	21.03	20.13	33	PASS
			MCH	RB1#0	22.56	21.66	33	PASS
				RB1#25	22.94	22.04	33	PASS
				RB1#49	22.52	21.62	33	PASS

					RB25#0	21.38	20.48	33	PASS
					RB25#13	21.45	20.55	33	PASS
					RB25#25	21.34	20.44	33	PASS
					RB50#0	21.48	20.58	33	PASS
				HCH	RB1#0	22.56	21.66	33	PASS
					RB1#25	22.9	22	33	PASS
					RB1#49	22.37	21.47	33	PASS
					RB25#0	21.42	20.52	33	PASS
					RB25#13	21.5	20.6	33	PASS
					RB25#25	21.31	20.41	33	PASS
					RB50#0	21.29	20.39	33	PASS
			15	LCH	RB1#0	21.79	20.89	33	PASS
					RB1#38	22.36	21.46	33	PASS
					RB1#74	21.91	21.01	33	PASS
					RB36#0	21	20.1	33	PASS
					RB36#18	21.37	20.47	33	PASS
					RB36#39	21.15	20.25	33	PASS
					RB75#0	20.85	19.95	33	PASS
				MCH	RB1#0	22.42	21.52	33	PASS
					RB1#38	22.92	22.02	33	PASS
					RB1#74	22.28	21.38	33	PASS
					RB36#0	21.35	20.45	33	PASS
					RB36#18	21.48	20.58	33	PASS
					RB36#39	21.27	20.37	33	PASS
					RB75#0	21.31	20.41	33	PASS
				HCH	RB1#0	22.35	21.45	33	PASS
					RB1#38	22.9	22	33	PASS
					RB1#74	22.15	21.25	33	PASS
					RB36#0	21.34	20.44	33	PASS
					RB36#18	21.5	20.6	33	PASS
					RB36#39	21.11	20.21	33	PASS
					RB75#0	21.18	20.28	33	PASS
			20	LCH	RB1#0	22.46	21.56	33	PASS
					RB1#50	23.03	22.13	33	PASS
					RB1#99	22.73	21.83	33	PASS
					RB50#0	21.17	20.27	33	PASS
					RB50#25	21.36	20.46	33	PASS
					RB50#50	21.45	20.55	33	PASS
					RB100#0	20.79	19.89	33	PASS
				MCH	RB1#0	22.47	21.57	33	PASS
					RB1#50	22.93	22.03	33	PASS
					RB1#99	22.43	21.53	33	PASS

					RB50#0	21.6	20.7	33	PASS
					RB50#25	21.66	20.76	33	PASS
					RB50#50	21.43	20.53	33	PASS
					RB100#0	20.23	19.33	33	PASS
				HCH	RB1#0	22.42	21.52	33	PASS
					RB1#50	22.86	21.96	33	PASS
					RB1#99	22.27	21.37	33	PASS
					RB50#0	21.45	20.55	33	PASS
					RB50#25	21.69	20.79	33	PASS
					RB50#50	21.18	20.28	33	PASS
					RB100#0	20.81	19.91	33	PASS

Note1:

a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

ERP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBd]

EIRP [dBm] = SGP [dBm] - Cable Loss [dB] + Gain [dBi]

b, SGP=Signal Generator Level

Note2:

SET Span=1.5*OBW

SET RBW=1%of the OBW, not to exceed 1MHz

SET VBW>= 3*RBW

SET Sweep time=auto-couple.

Detector: RMS

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
BAND38	LTE/TM1	5	LCH	RB1#0	3.04	13	PASS
				RB1#13	3.14	13	PASS
				RB1#24	3.71	13	PASS
				RB12#0	4.14	13	PASS
				RB12#6	3.91	13	PASS
				RB12#13	4.41	13	PASS
				RB25#0	5.07	13	PASS
			MCH	RB1#0	4.48	13	PASS
				RB1#13	4.39	13	PASS
				RB1#24	4.52	13	PASS
				RB12#0	5.23	13	PASS
				RB12#6	5.17	13	PASS
				RB12#13	5.4	13	PASS
				RB25#0	5.42	13	PASS
			HCH	RB1#0	4.16	13	PASS
				RB1#13	3.87	13	PASS
				RB1#24	4.5	13	PASS
				RB12#0	5.21	13	PASS
				RB12#6	4.88	13	PASS
				RB12#13	5.05	13	PASS
				RB25#0	5.46	13	PASS
		10	LCH	RB1#0	3.55	13	PASS
				RB1#25	3.18	13	PASS
				RB1#49	4.22	13	PASS
				RB25#0	4.39	13	PASS
				RB25#13	4.38	13	PASS
				RB25#25	4.62	13	PASS
				RB50#0	5.15	13	PASS
			MCH	RB1#0	4.37	13	PASS
				RB1#25	4.18	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB1#49	4.66	13	PASS
				RB25#0	5.34	13	PASS
				RB25#13	5.22	13	PASS
				RB25#25	5.54	13	PASS
				RB50#0	5.84	13	PASS
			HCH	RB1#0	4.29	13	PASS
				RB1#25	3.82	13	PASS
				RB1#49	3.82	13	PASS
				RB25#0	5.41	13	PASS
				RB25#13	5.1	13	PASS
				RB25#25	5.3	13	PASS
				RB50#0	5.92	13	PASS
		15	LCH	RB1#0	3.41	13	PASS
				RB1#38	3.8	13	PASS
				RB1#74	4.66	13	PASS
				RB36#0	4.83	13	PASS
				RB36#18	4.54	13	PASS
				RB36#39	5.32	13	PASS
				RB75#0	5.66	13	PASS
			MCH	RB1#0	4.31	13	PASS
				RB1#38	4.32	13	PASS
				RB1#74	4.62	13	PASS
				RB36#0	5.46	13	PASS
				RB36#18	5.45	13	PASS
				RB36#39	5.49	13	PASS
				RB75#0	5.74	13	PASS
			HCH	RB1#0	5.08	13	PASS
				RB1#38	4.29	13	PASS
				RB1#74	4.33	13	PASS
				RB36#0	5.79	13	PASS
				RB36#18	5.5	13	PASS
				RB36#39	5.75	13	PASS
				RB75#0	6.07	13	PASS
		20	LCH	RB1#0	3.39	13	PASS
				RB1#50	3.4	13	PASS
				RB1#99	4.46	13	PASS
				RB50#0	4.84	13	PASS
				RB50#25	4.93	13	PASS
				RB50#50	5.36	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB100#0	6.27	13	PASS
			MCH	RB1#0	3.79	13	PASS
				RB1#50	3.98	13	PASS
				RB1#99	4.38	13	PASS
				RB50#0	5.53	13	PASS
				RB50#25	5.26	13	PASS
				RB50#50	5.49	13	PASS
				RB100#0	6.92	13	PASS
			HCH	RB1#0	4.47	13	PASS
				RB1#50	4.04	13	PASS
				RB1#99	4.06	13	PASS
				RB50#0	5.74	13	PASS
				RB50#25	5.37	13	PASS
				RB50#50	5.64	13	PASS
				RB100#0	6.97	13	PASS
	LTE/TM2	5	LCH	RB1#0	3.9	13	PASS
				RB1#13	4.03	13	PASS
				RB1#24	4.45	13	PASS
				RB12#0	4.97	13	PASS
				RB12#6	4.83	13	PASS
				RB12#13	5.16	13	PASS
				RB25#0	6.01	13	PASS
			MCH	RB1#0	4.85	13	PASS
				RB1#13	4.83	13	PASS
				RB1#24	4.95	13	PASS
				RB12#0	5.85	13	PASS
				RB12#6	5.93	13	PASS
				RB12#13	5.75	13	PASS
				RB25#0	6.36	13	PASS
			HCH	RB1#0	5.2	13	PASS
				RB1#13	4.98	13	PASS
				RB1#24	5.1	13	PASS
				RB12#0	6.15	13	PASS
				RB12#6	5.88	13	PASS
				RB12#13	6.08	13	PASS
				RB25#0	6.32	13	PASS
		10	LCH	RB1#0	4.41	13	PASS
				RB1#25	3.9	13	PASS
				RB1#49	4.8	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
				RB25#0	5.58	13	PASS
				RB25#13	5.38	13	PASS
				RB25#25	5.66	13	PASS
				RB50#0	5.98	13	PASS
			MCH	RB1#0	4.81	13	PASS
				RB1#25	4.83	13	PASS
				RB1#49	5.06	13	PASS
				RB25#0	6.46	13	PASS
				RB25#13	6.44	13	PASS
				RB25#25	6.34	13	PASS
				RB50#0	6.34	13	PASS
			HCH	RB1#0	5.47	13	PASS
				RB1#25	5.04	13	PASS
				RB1#49	4.98	13	PASS
				RB25#0	6.15	13	PASS
				RB25#13	6.02	13	PASS
				RB25#25	6.25	13	PASS
				RB50#0	6.81	13	PASS
			LCH	RB1#0	4.16	13	PASS
				RB1#38	4.22	13	PASS
				RB1#74	4.9	13	PASS
				RB36#0	5.5	13	PASS
				RB36#18	5.35	13	PASS
				RB36#39	5.9	13	PASS
				RB75#0	6.4	13	PASS
			MCH	RB1#0	5.11	13	PASS
				RB1#38	4.89	13	PASS
				RB1#74	5.37	13	PASS
		15		RB36#0	6.27	13	PASS
				RB36#18	6.25	13	PASS
				RB36#39	6.13	13	PASS
				RB75#0	6.76	13	PASS
			HCH	RB1#0	5.91	13	PASS
				RB1#38	5.12	13	PASS
				RB1#74	5.17	13	PASS
				RB36#0	6.62	13	PASS
				RB36#18	6.48	13	PASS
				RB36#39	6.56	13	PASS
				RB75#0	6.84	13	PASS

Test Band(For LTE)	Test Mode	Test Bandwidth (MHz)	Test Channel	Test RB	Measured[dB]	Limit [dB]	Verdict
		20	LCH	RB1#0	3.66	13	PASS
				RB1#50	4.01	13	PASS
				RB1#99	4.99	13	PASS
				RB50#0	5.83	13	PASS
				RB50#25	6.05	13	PASS
				RB50#50	6.31	13	PASS
				RB100#0	6.63	13	PASS
			MCH	RB1#0	4.79	13	PASS
				RB1#50	4.84	13	PASS
				RB1#99	5.23	13	PASS
				RB50#0	6.57	13	PASS
				RB50#25	6.42	13	PASS
				RB50#50	6.46	13	PASS
				RB100#0	7.4	13	PASS
			HCH	RB1#0	5.11	13	PASS
				RB1#50	4.68	13	PASS
				RB1#99	4.57	13	PASS
				RB50#0	6.73	13	PASS
				RB50#25	6.48	13	PASS
				RB50#50	6.52	13	PASS
				RB100#0	7.6	13	PASS

3Appendix_C: Modulation Characteristics

Part I - Test Plots

3.1 For LTE

3.1.1 Test Band = BAND38

3.1.1.1 Test Mode = LTE/TM1

3.1.1.1.1 Test Bandwidth = 5

3.1.1.1.1.1 Test Channel = MCH

3.1.1.1.1.1.1 Test RB = RB25#0
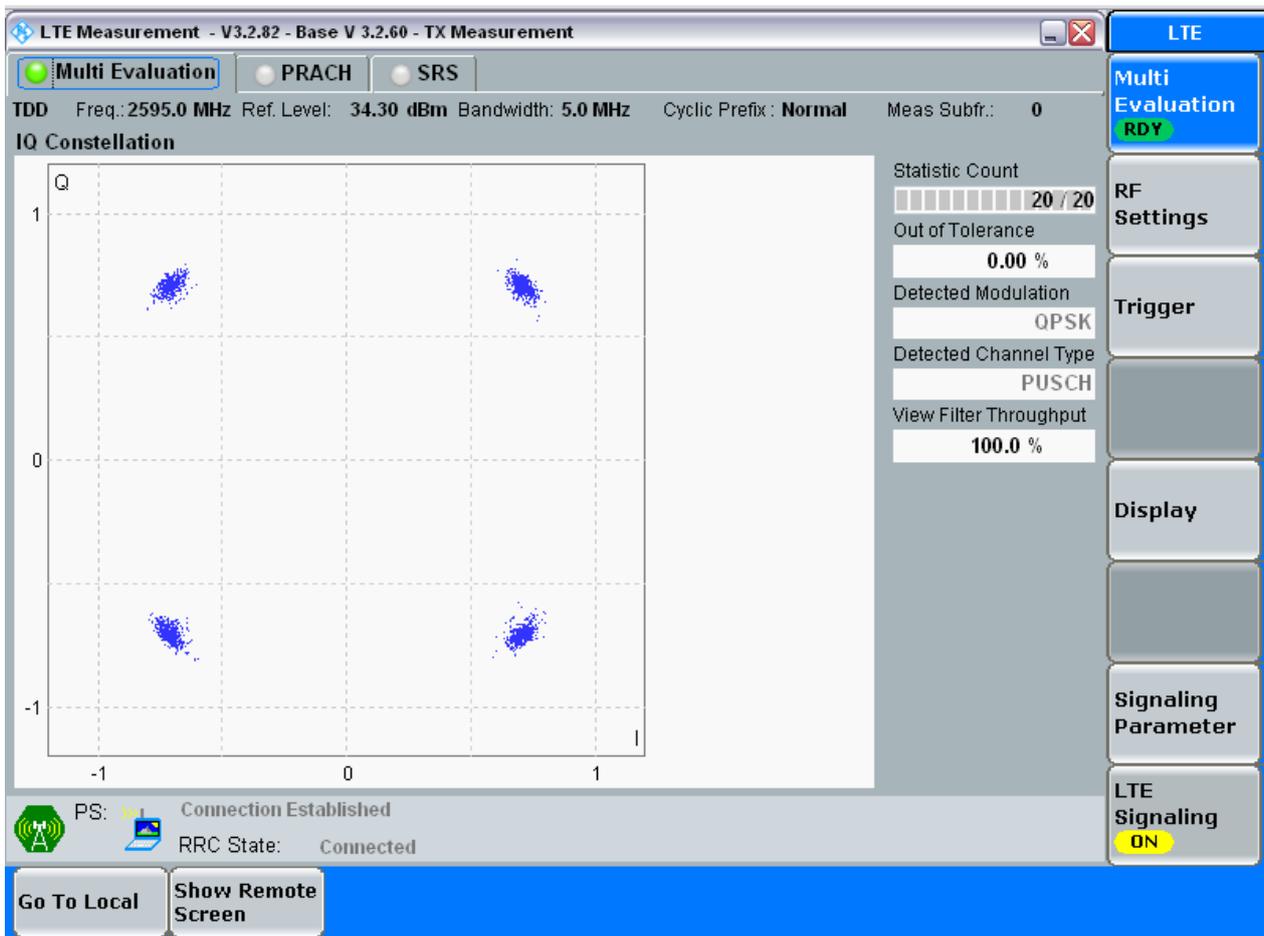
3.1.1.1.2 Test Bandwidth = 10

3.1.1.1.2.1 Test Channel = MCH

3.1.1.1.2.1.1 Test RB = RB50#0
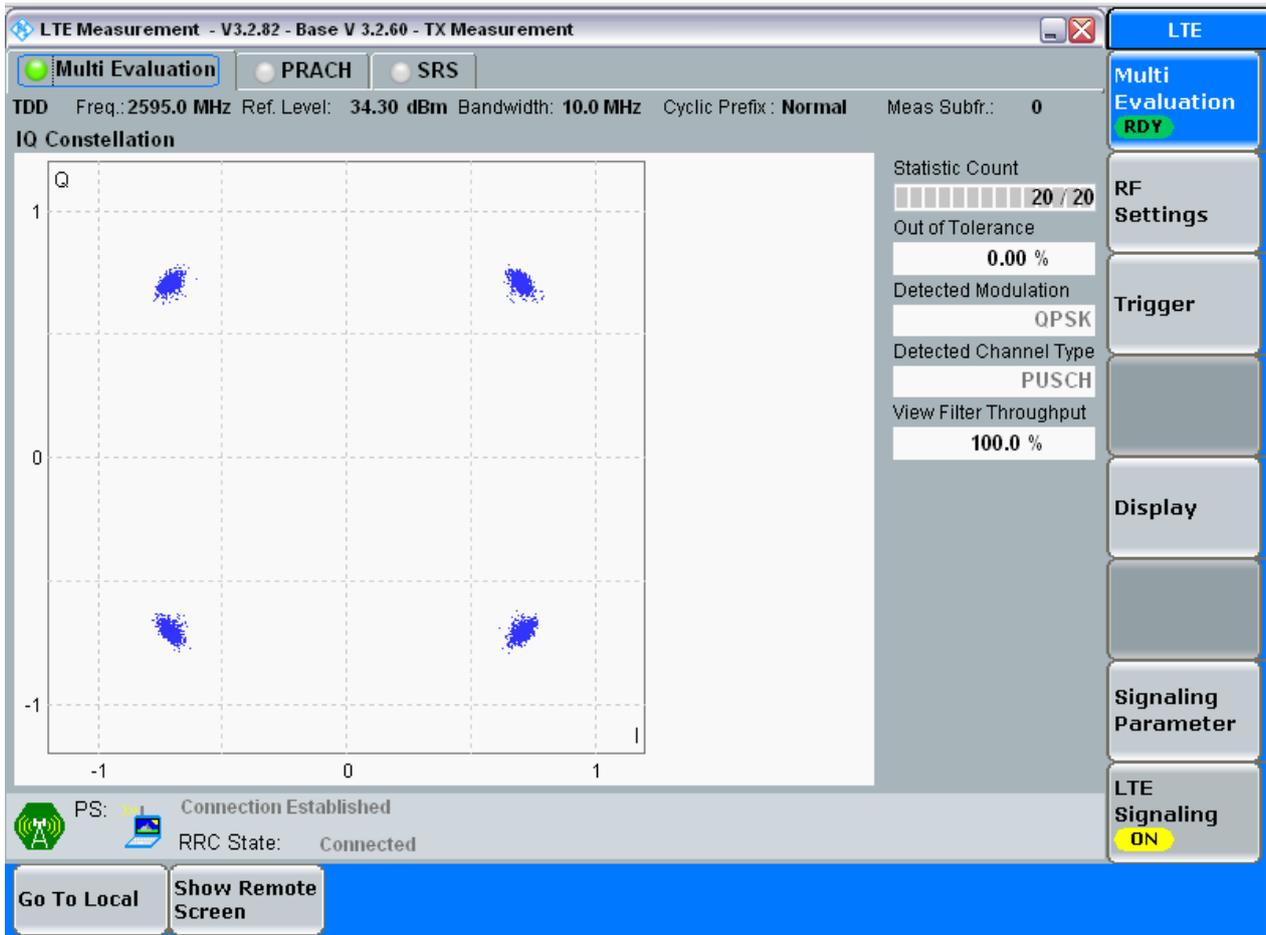
3.1.1.1.3 Test Bandwidth = 15

3.1.1.1.3.1 Test Channel = MCH

3.1.1.1.3.1.1 Test RB = RB75#0
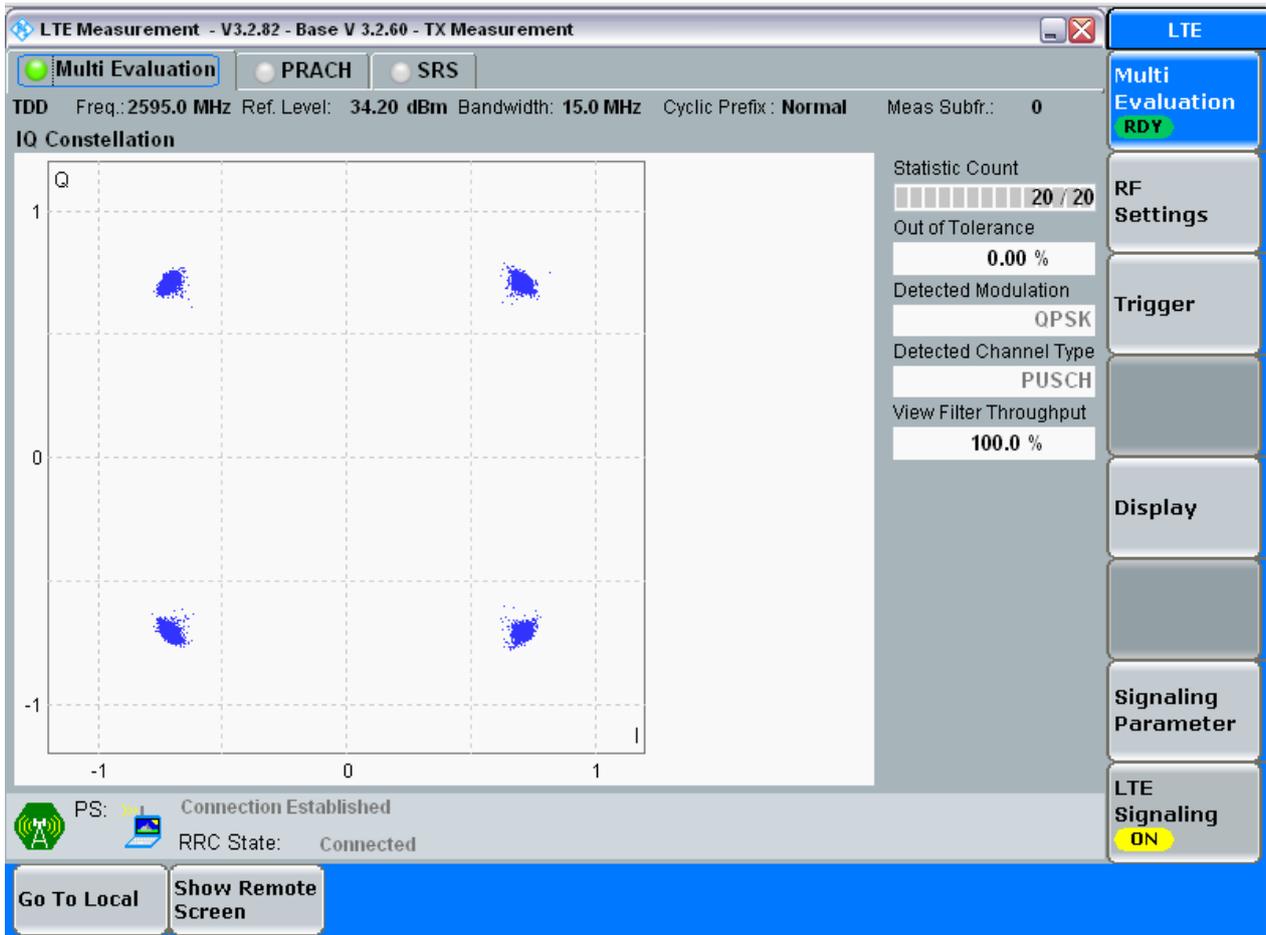
3.1.1.1.4 Test Bandwidth = 20

3.1.1.1.4.1 Test Channel = MCH

3.1.1.1.4.1.1 Test RB = RB100#0
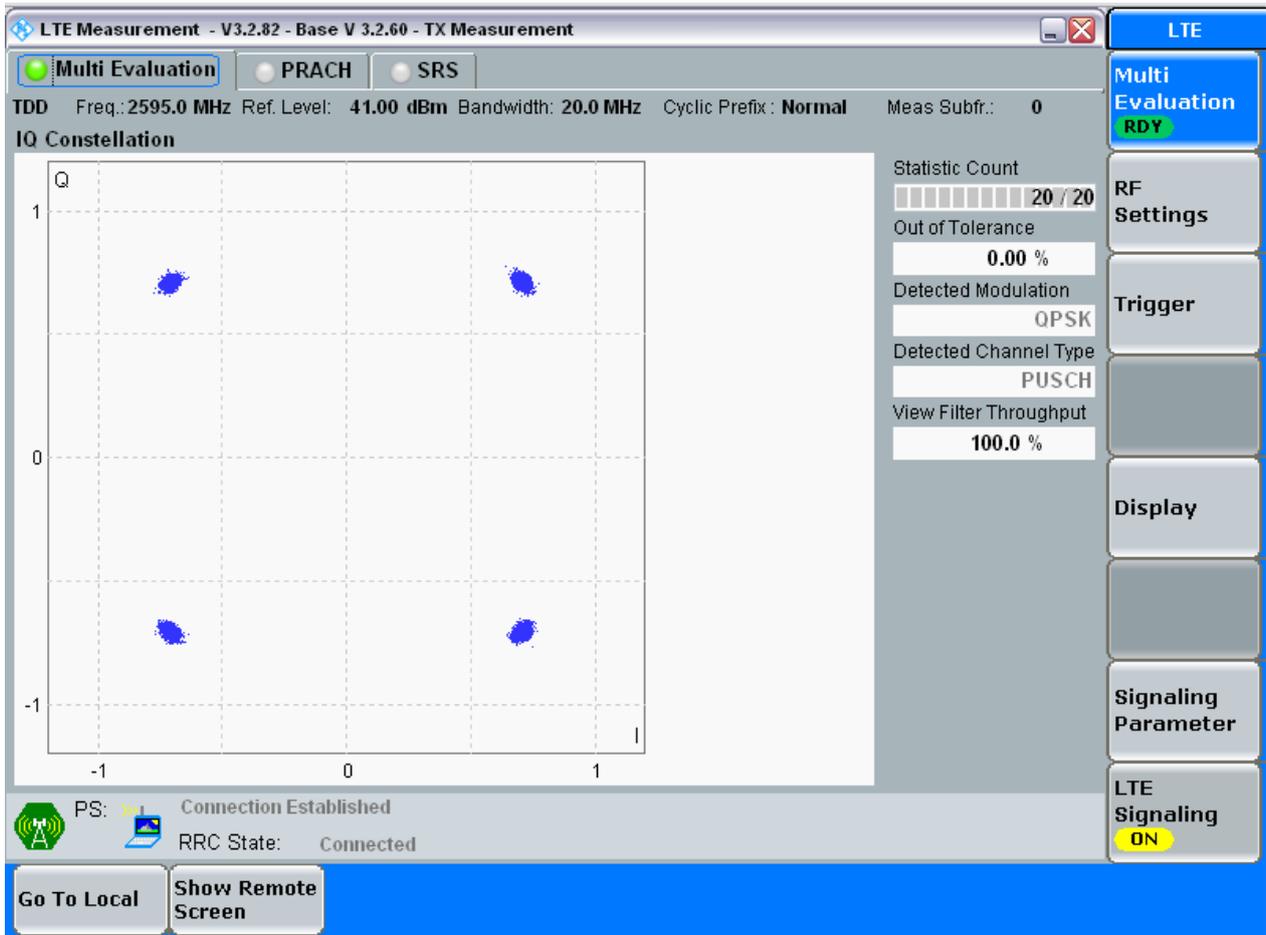
3.1.1.2 Test Mode = LTE/TM2

3.1.1.2.1 Test Bandwidth = 5

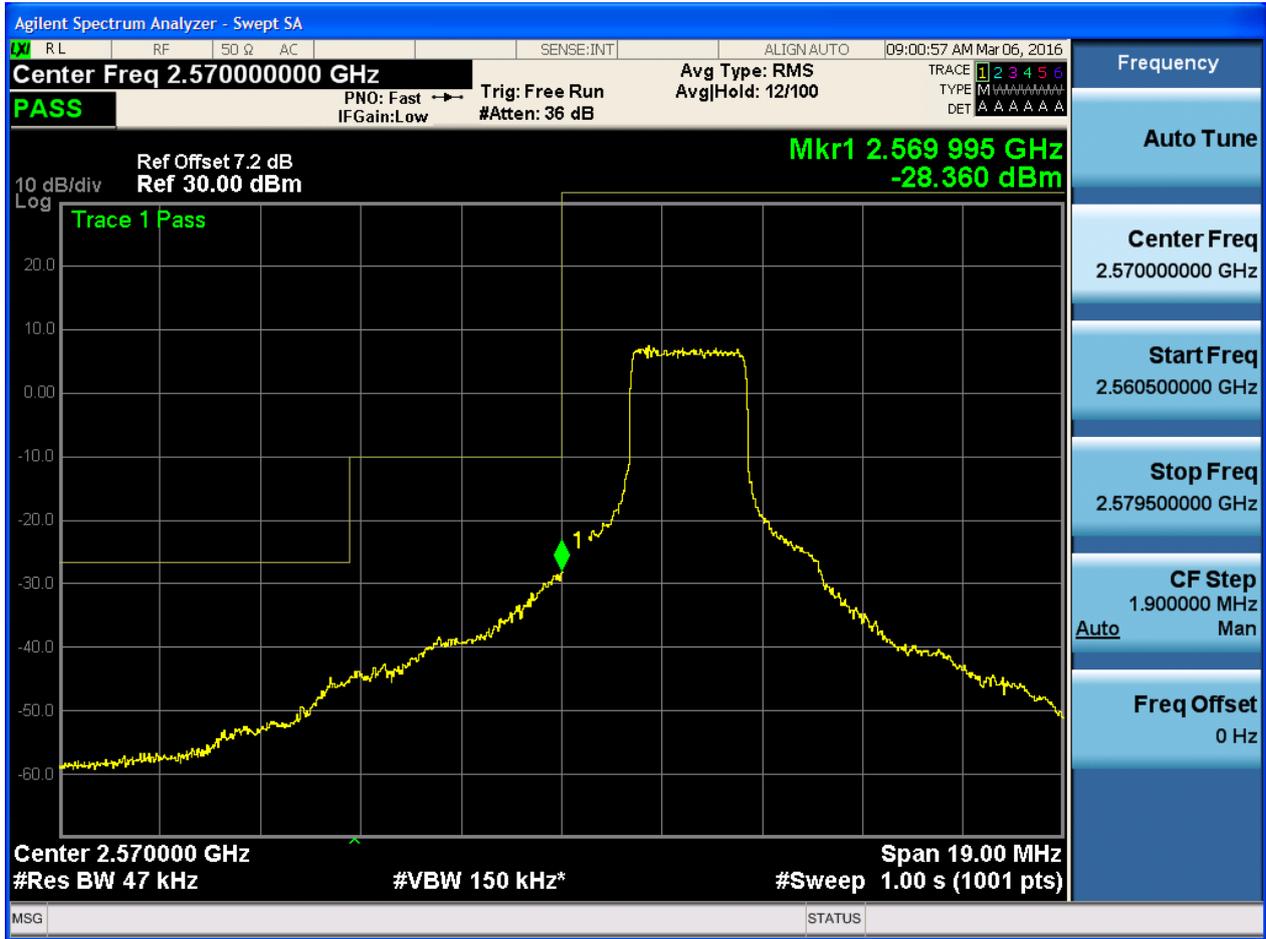### 3.1.1.2.1.1 Test Channel = MCH

3.1.1.2.1.1.1 Test RB = RB25#0
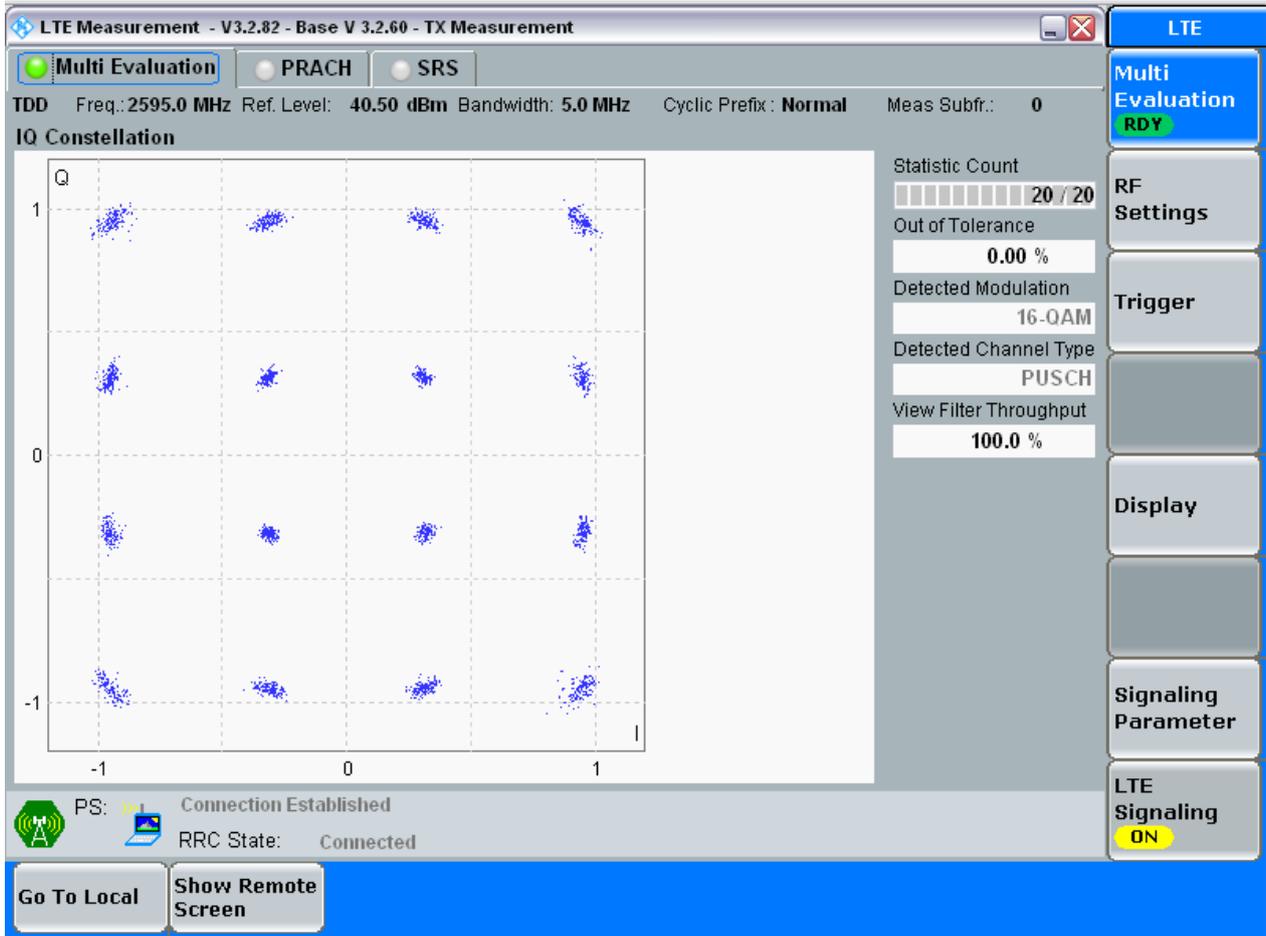
3.1.1.2.2 Test Bandwidth = 10

3.1.1.2.2.1 Test Channel = MCH

3.1.1.2.2.1.1 Test RB = RB50#0
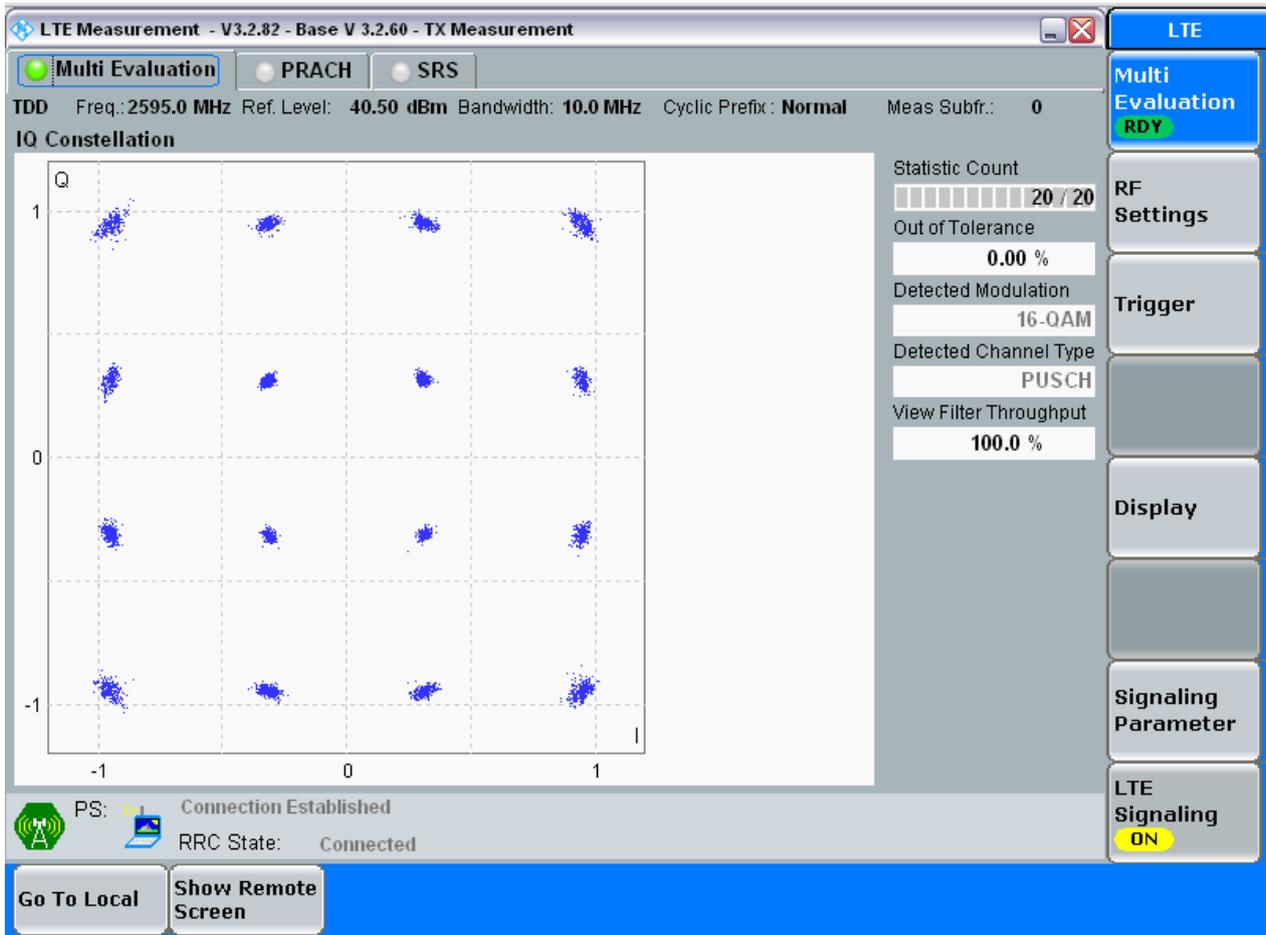
3.1.1.2.3 Test Bandwidth = 15

3.1.1.2.3.1 Test Channel = MCH

3.1.1.2.3.1.1 Test RB = RB75#0
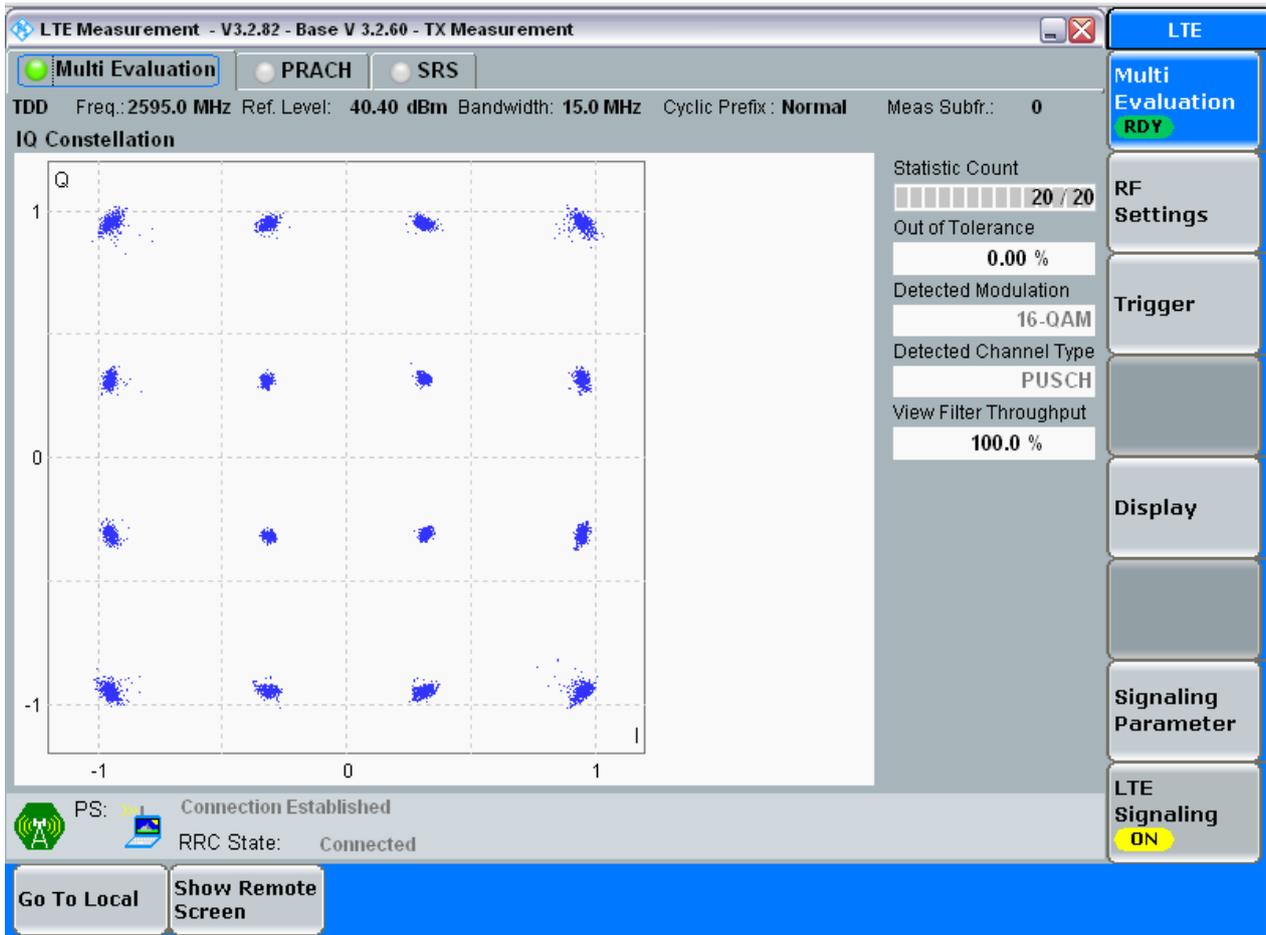
3.1.1.2.4 Test Bandwidth = 20

3.1.1.2.4.1 Test Channel = MCH

3.1.1.2.4.1.1 Test RB = RB100#0
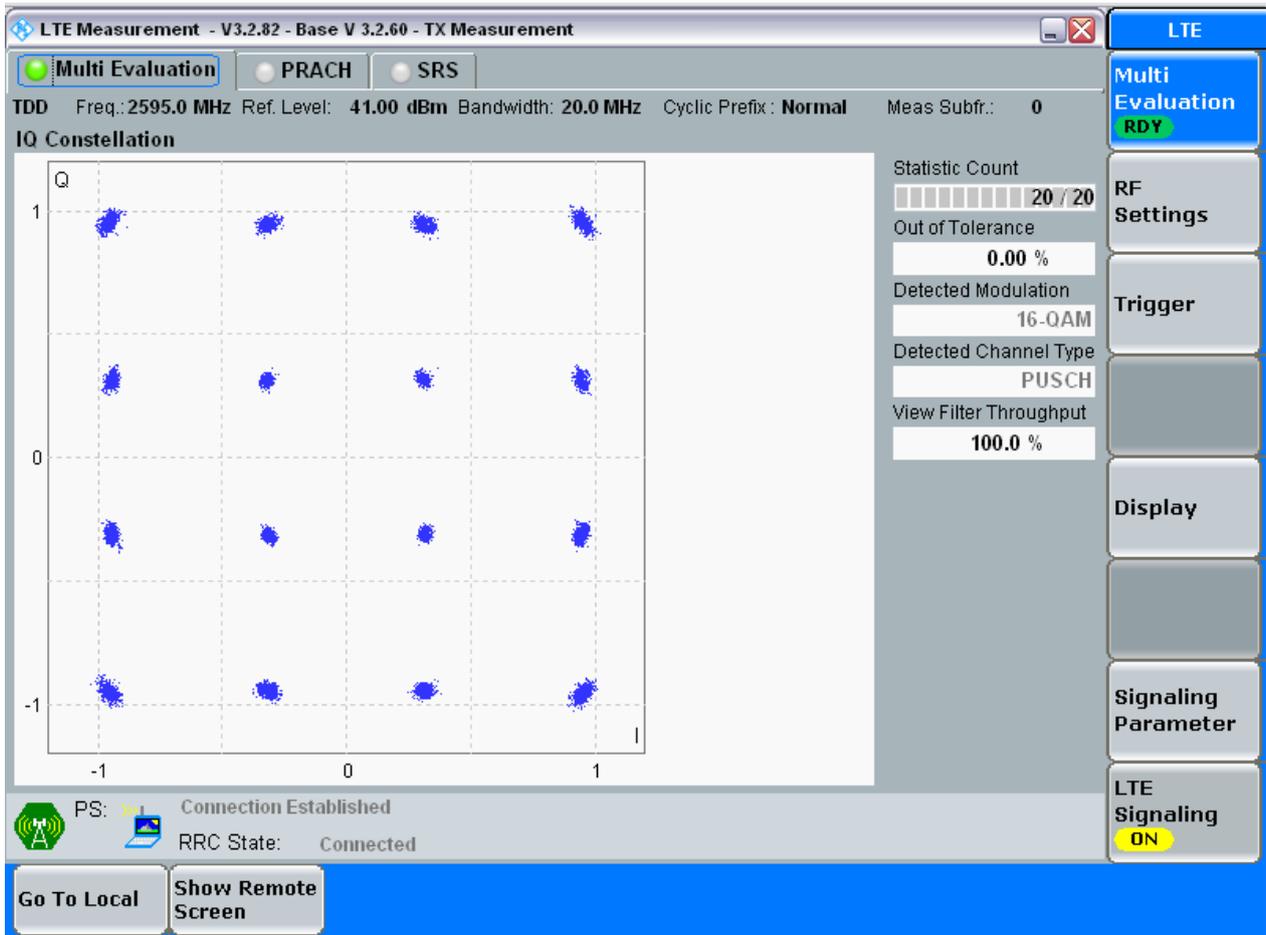
4Appendix_D: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Bandwidth	Test Channel	Test RB	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BAND38	LTE/TM1	5	LCH	RB25#0	4.50	4.89	Pass
			MCH	RB25#0	4.49	4.86	Pass
			HCH	RB25#0	4.50	4.87	Pass
		10	LCH	RB50#0	8.99	9.58	Pass
			MCH	RB50#0	8.99	9.66	Pass
			HCH	RB50#0	8.98	9.59	Pass
		15	LCH	RB75#0	13.47	14.35	Pass
			MCH	RB75#0	13.46	14.30	Pass
			HCH	RB75#0	13.44	14.30	Pass
		20	LCH	RB100#0	17.94	19.02	Pass
			MCH	RB100#0	17.95	19.05	Pass
			HCH	RB100#0	17.96	19.07	Pass
	LTE/TM2	5	LCH	RB25#0	4.49	4.86	Pass
			MCH	RB25#0	4.49	4.83	Pass
			HCH	RB25#0	4.50	4.85	Pass
		10	LCH	RB50#0	8.98	9.56	Pass
			MCH	RB50#0	8.98	9.58	Pass
			HCH	RB50#0	8.98	9.63	Pass
		15	LCH	RB75#0	13.45	14.35	Pass
			MCH	RB75#0	13.46	14.41	Pass
			HCH	RB75#0	13.44	14.37	Pass
		20	LCH	RB100#0	17.95	19.04	Pass
			MCH	RB100#0	17.95	19.04	Pass
			HCH	RB100#0	17.94	19.05	Pass

Part II - Test Plots

4.1 For LTE

4.1.1 Test Band = BAND38

4.1.1.1 Test Mode = LTE/TM1

4.1.1.1.1 Test Bandwidth = 5

4.1.1.1.1.1 Test Channel = LCH

4.1.1.1.1.1.1 Test RB = RB25#0
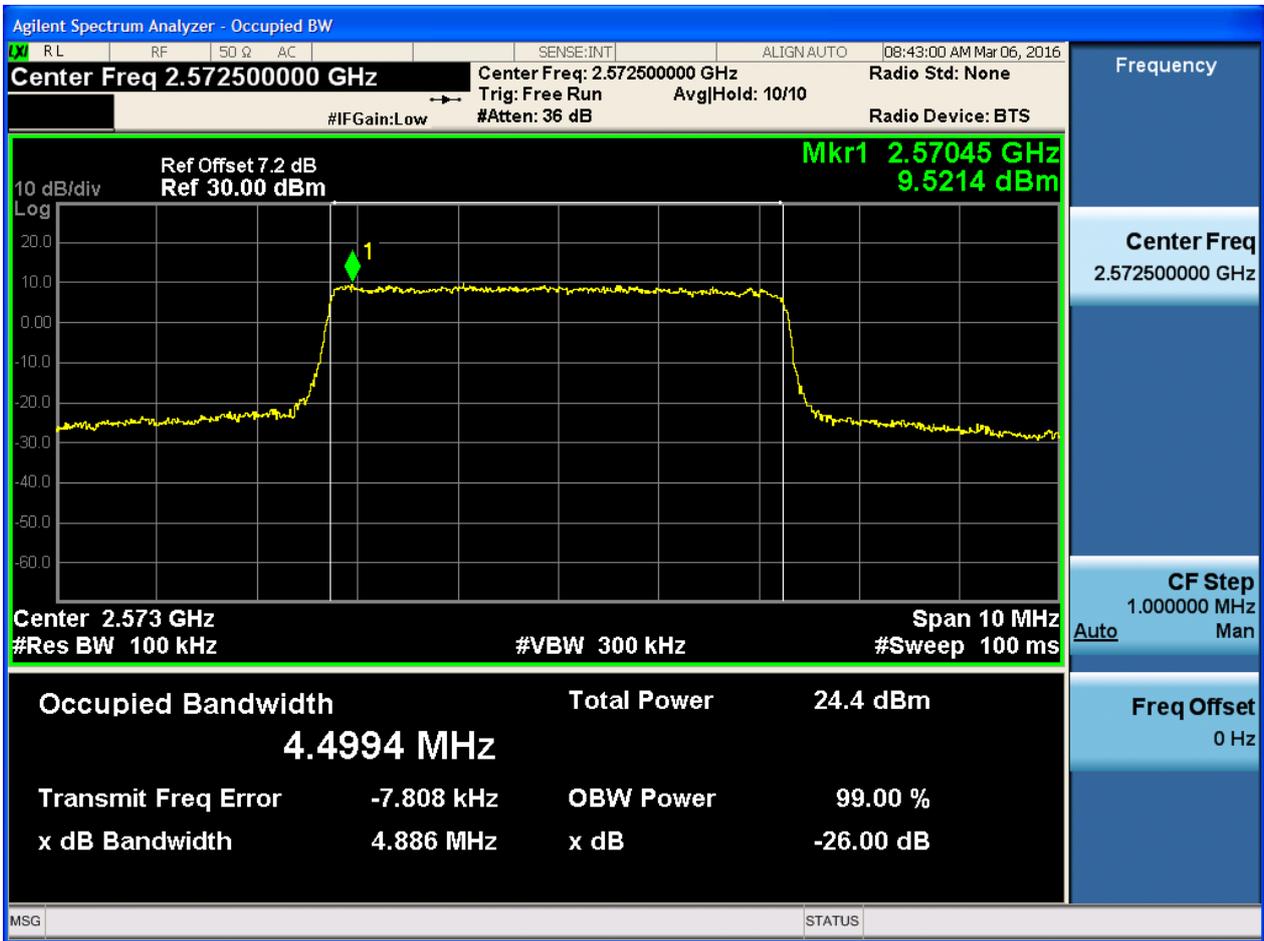
4.1.1.1.1.2 Test Channel = MCH

4.1.1.1.1.2.1 Test RB = RB25#0
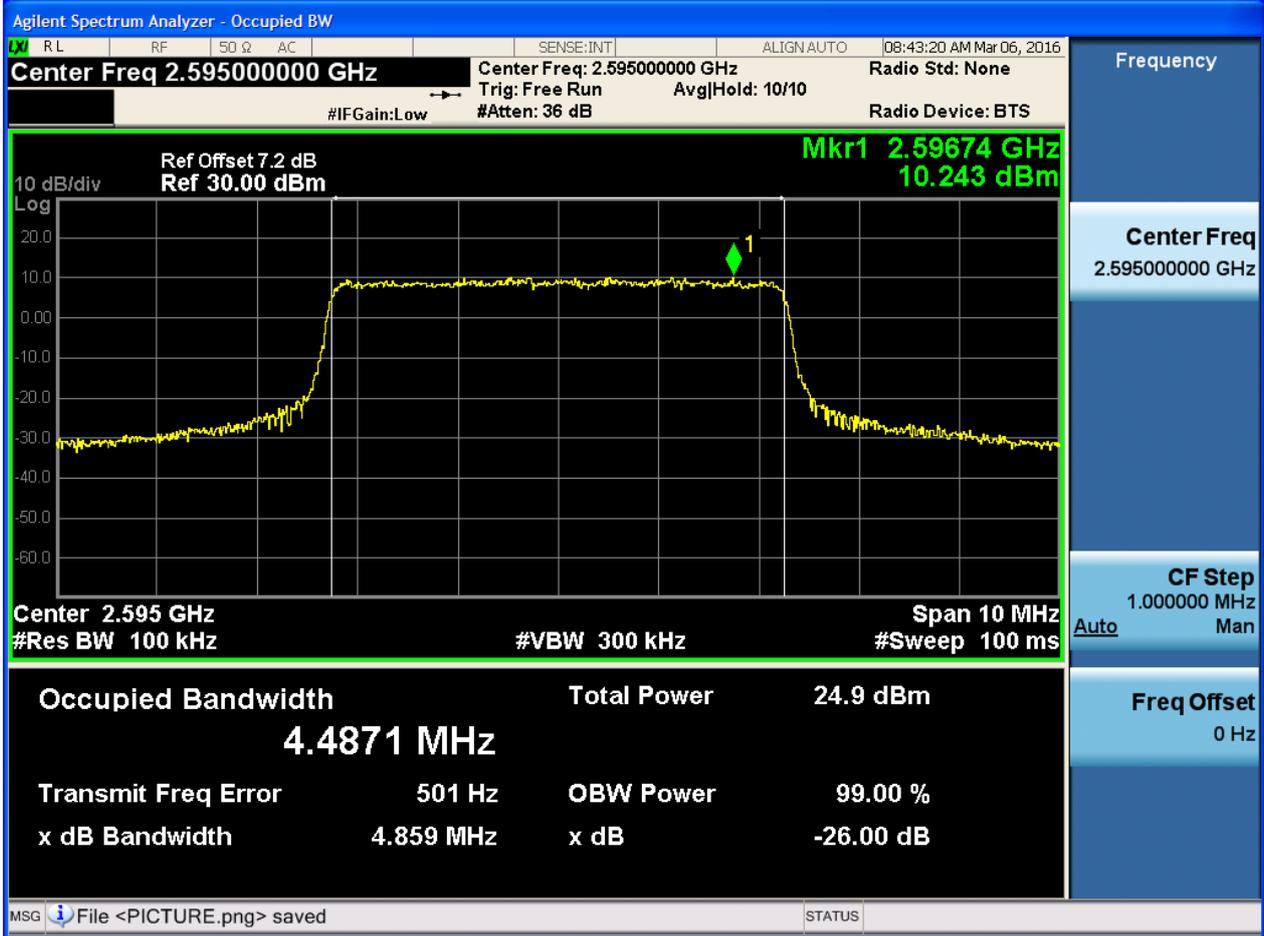
4.1.1.1.1.3 Test Channel = HCH

4.1.1.1.1.3.1 Test RB = RB25#0
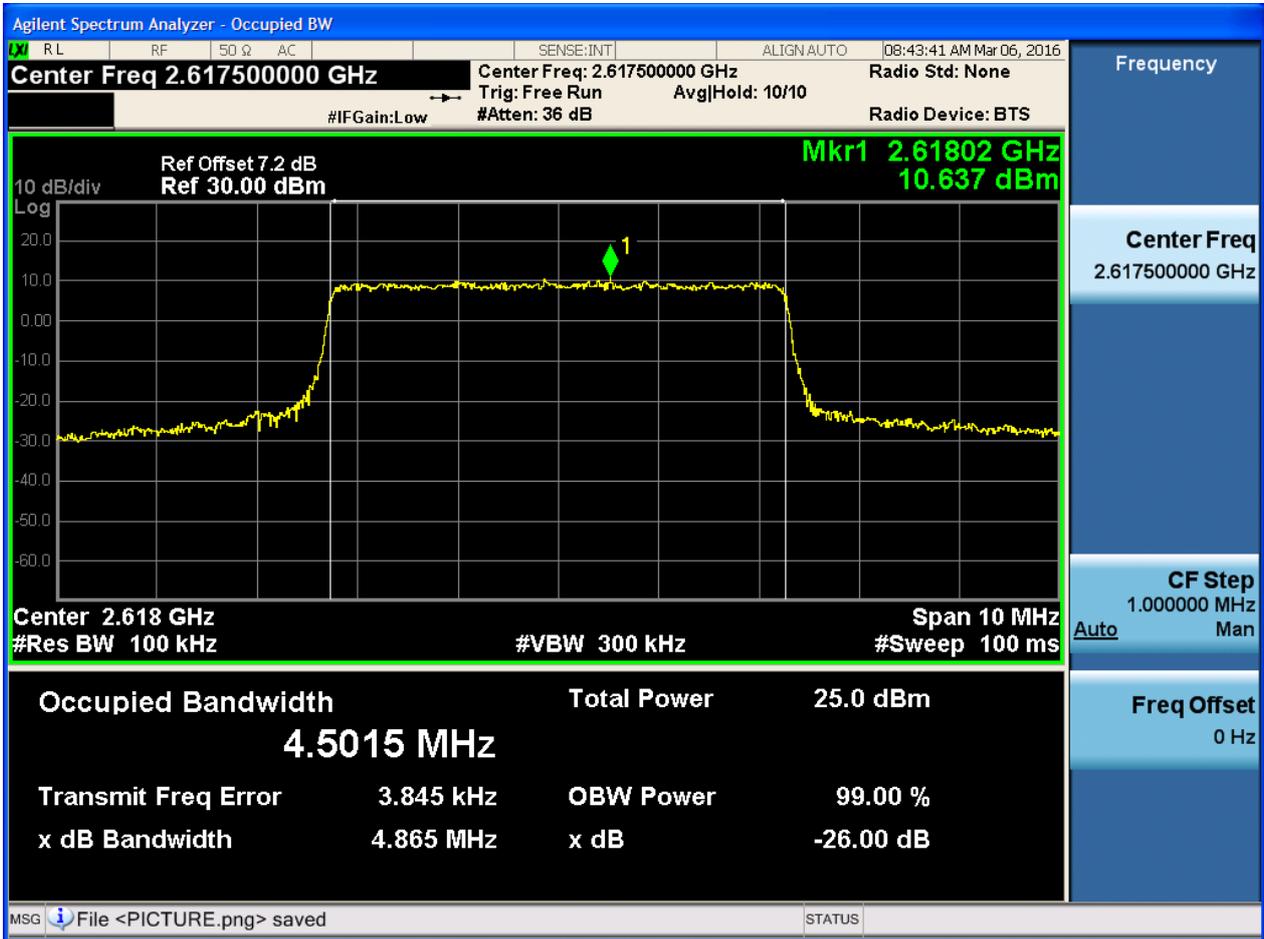
4.1.1.1.2 Test Bandwidth = 10

4.1.1.1.2.1 Test Channel = LCH

4.1.1.1.2.1.1 Test RB = RB50#0
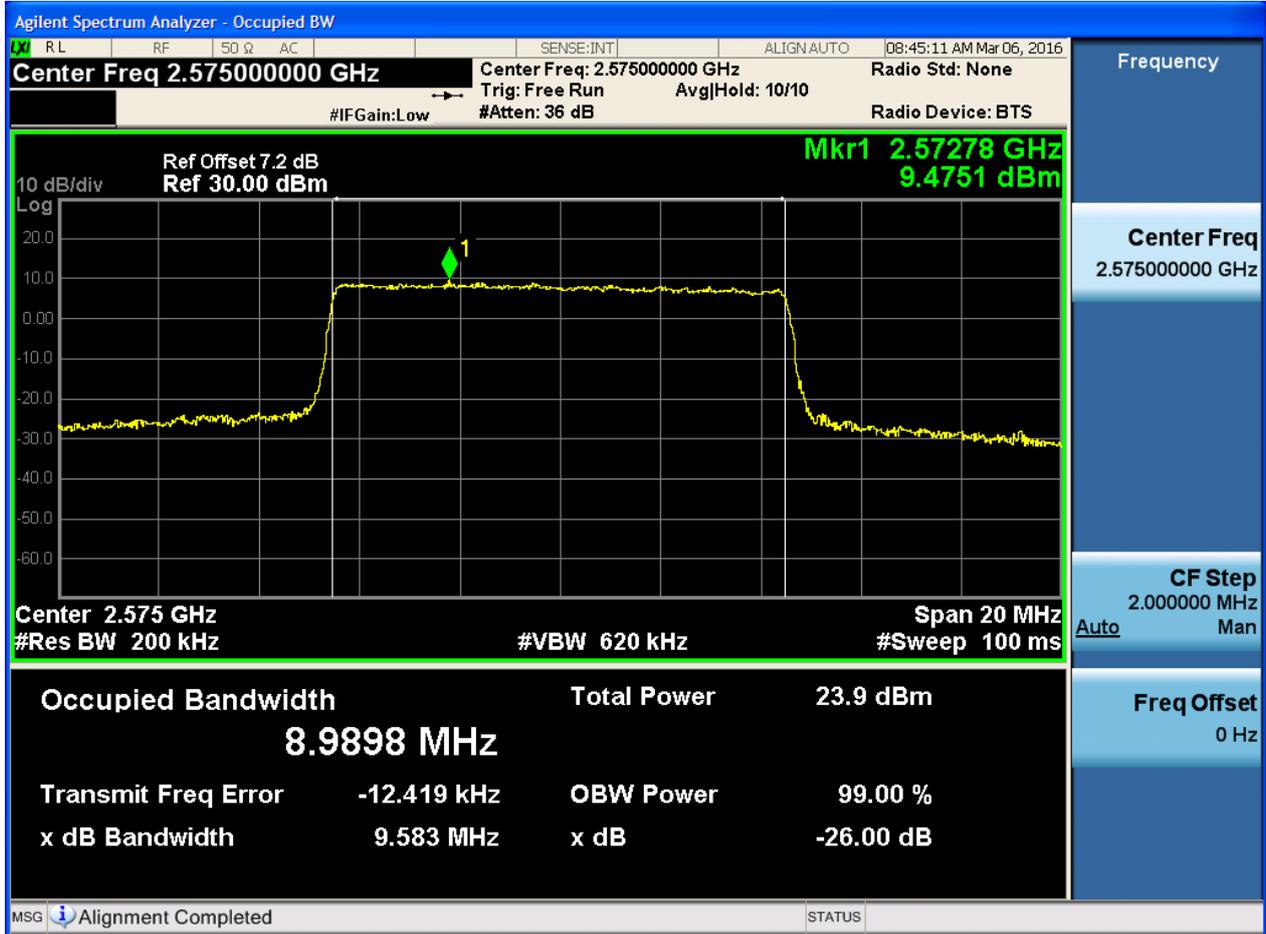
4.1.1.1.2.2 Test Channel = MCH

4.1.1.1.2.2.1 Test RB = RB50#0
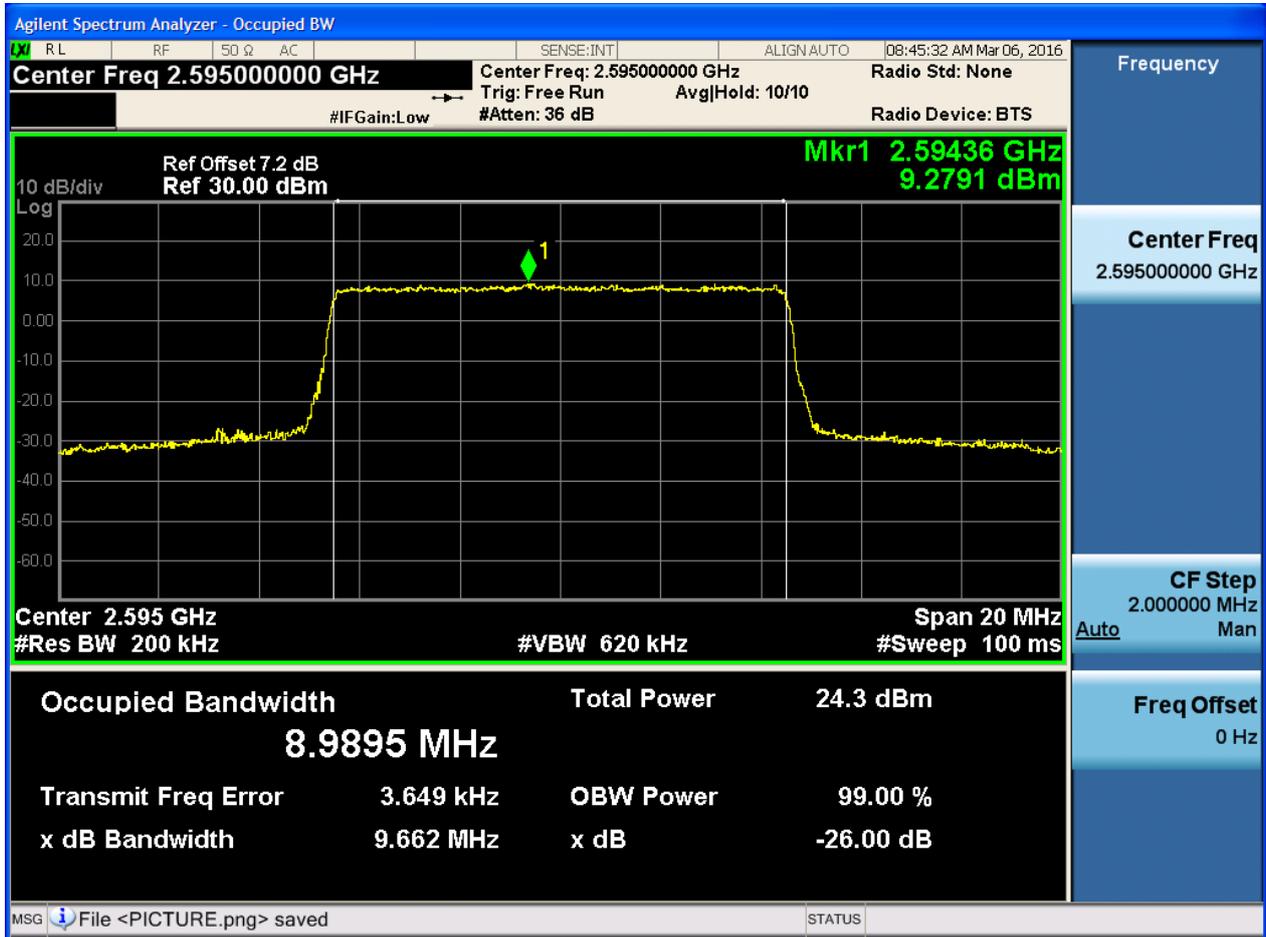
4.1.1.1.2.3 Test Channel = HCH

4.1.1.1.2.3.1 Test RB = RB50#0
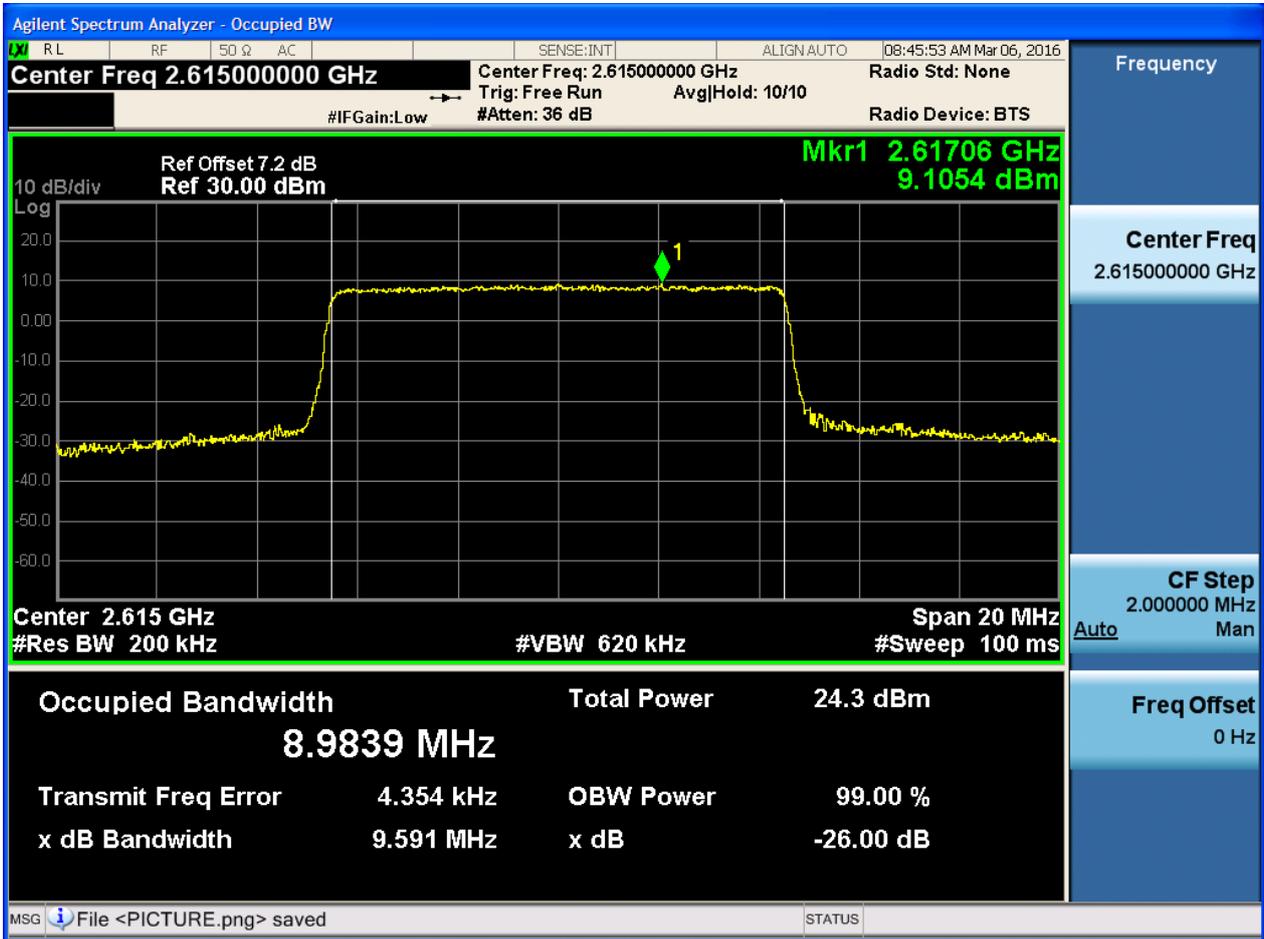
4.1.1.1.3 Test Bandwidth = 15

4.1.1.1.3.1 Test Channel = LCH

4.1.1.1.3.1.1 Test RB = RB75#0

4.1.1.1.3.2 Test Channel = MCH

4.1.1.1.3.2.1 Test RB = RB75#0
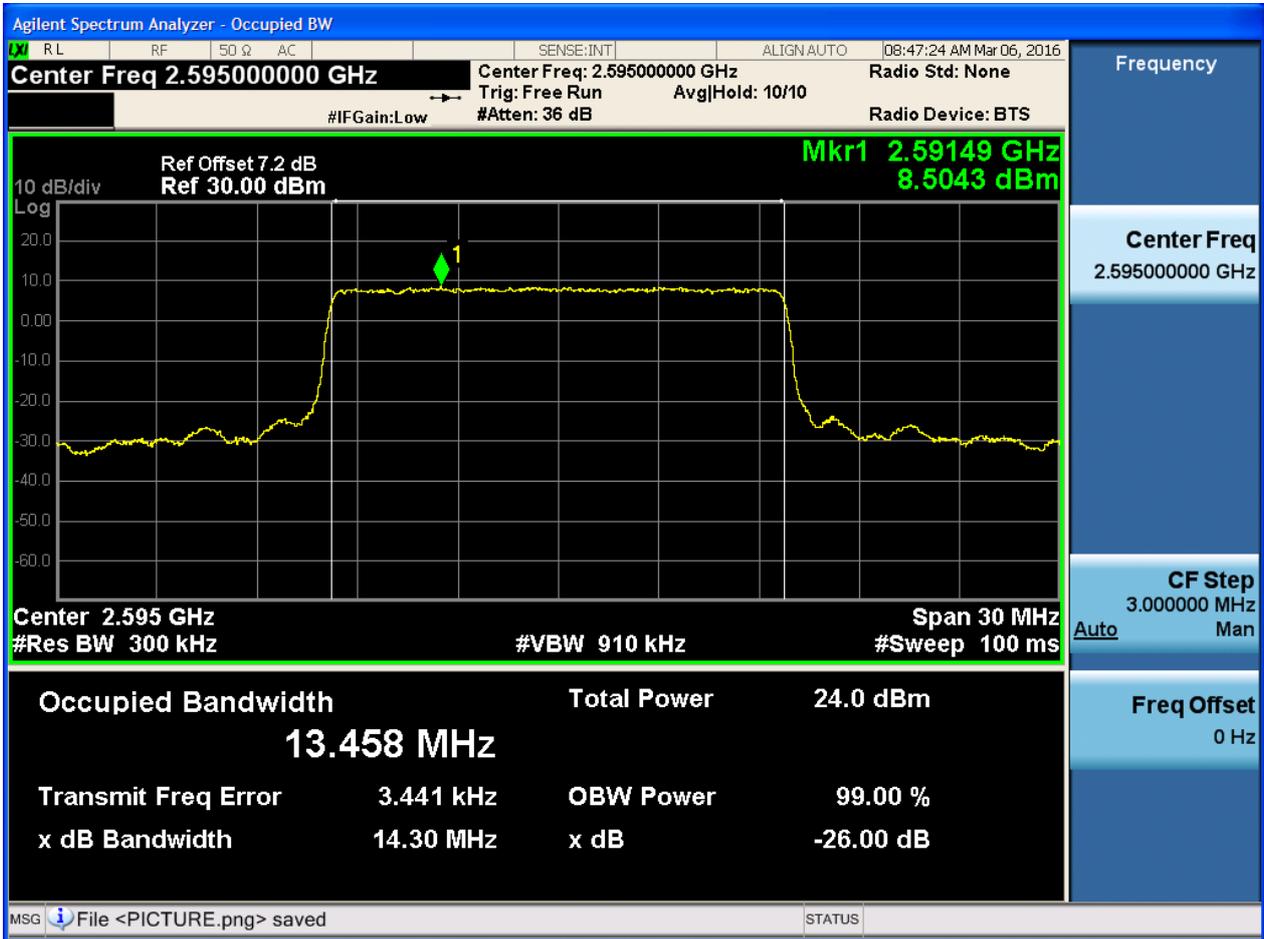
4.1.1.1.3.3 Test Channel = HCH

4.1.1.1.3.3.1 Test RB = RB75#0
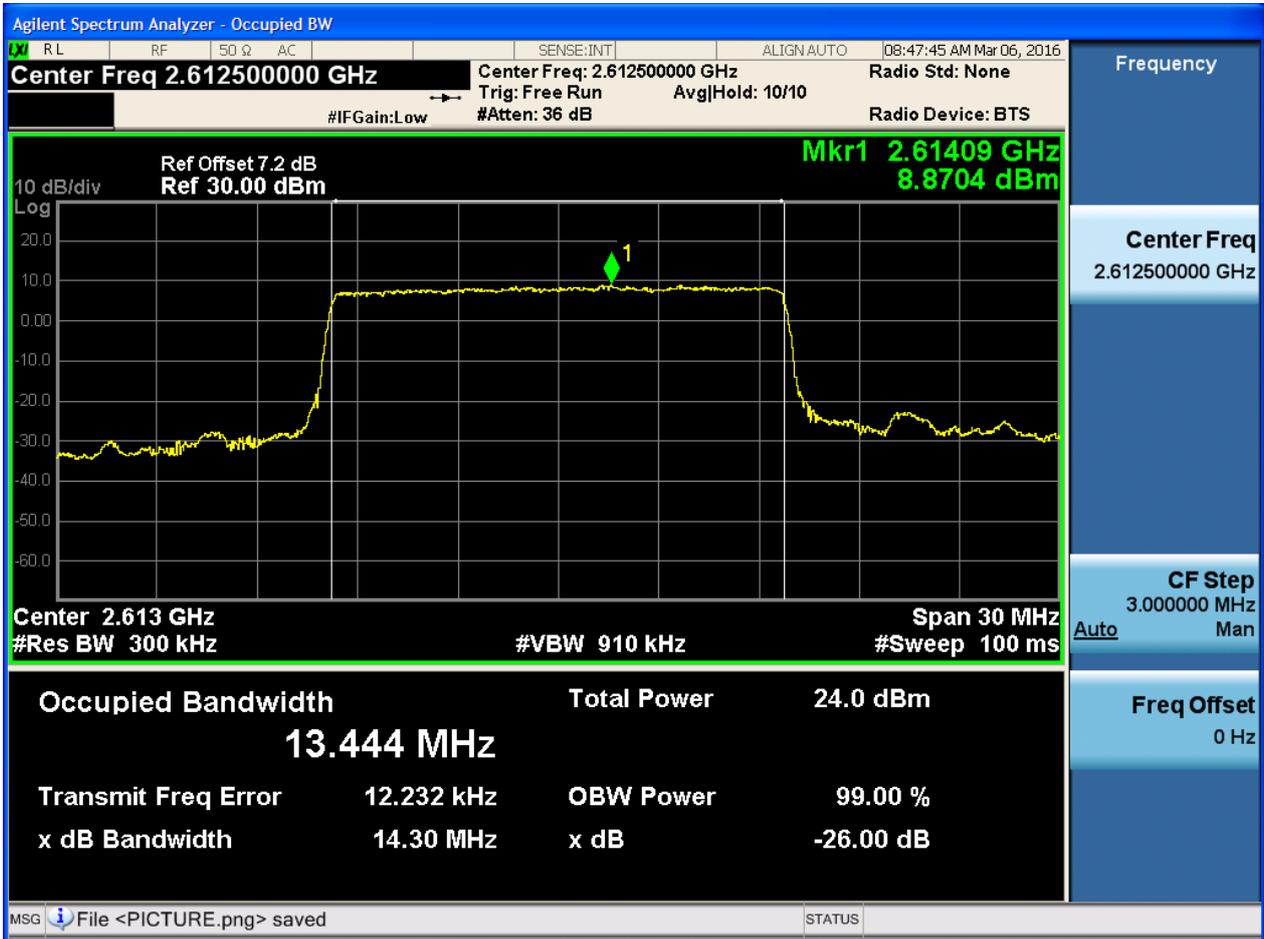
4.1.1.1.4 Test Bandwidth = 20

4.1.1.1.4.1 Test Channel = LCH

4.1.1.1.4.1.1 Test RB = RB100#0
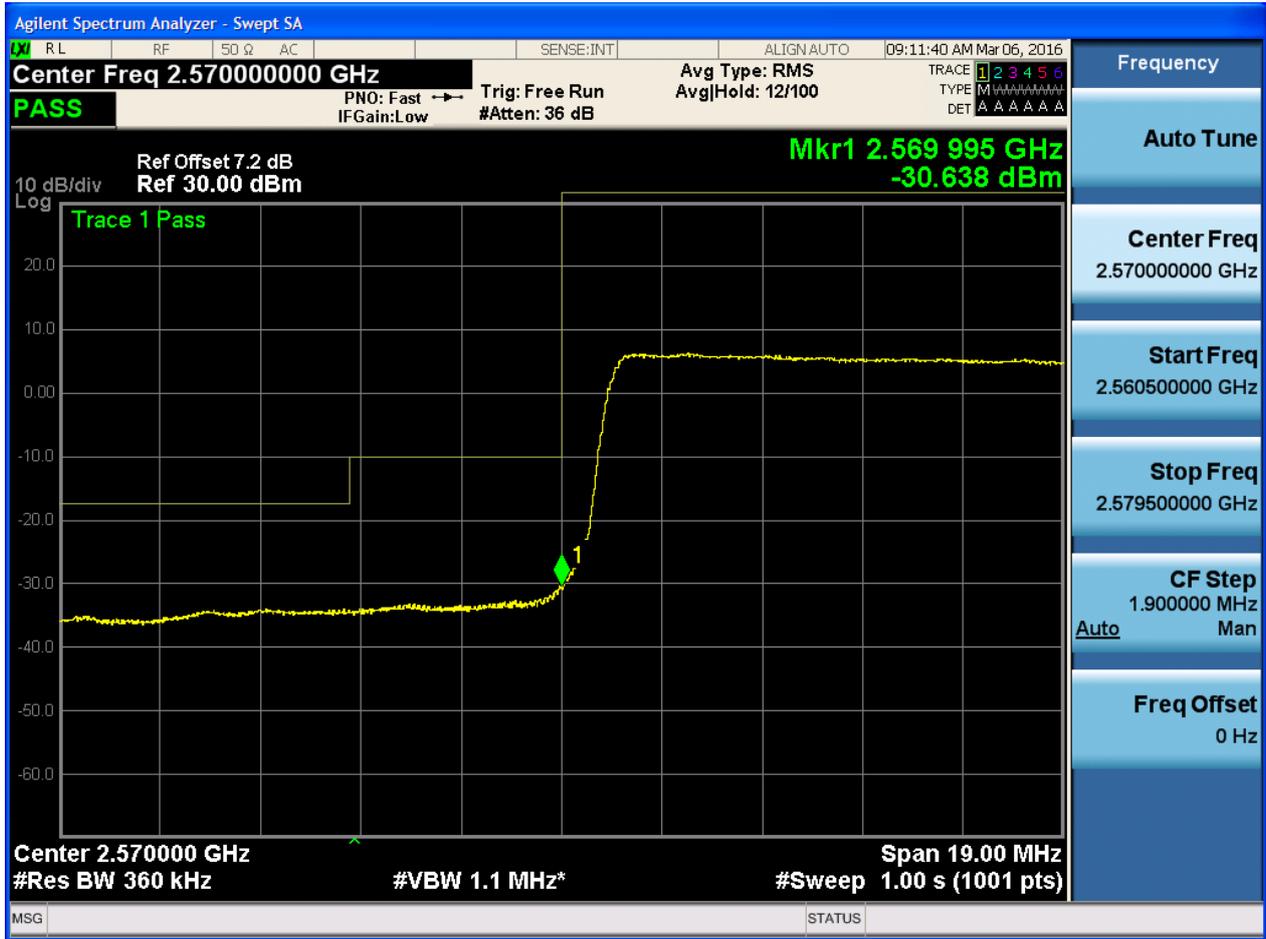
4.1.1.1.4.2 Test Channel = MCH

4.1.1.1.4.2.1 Test RB = RB100#0
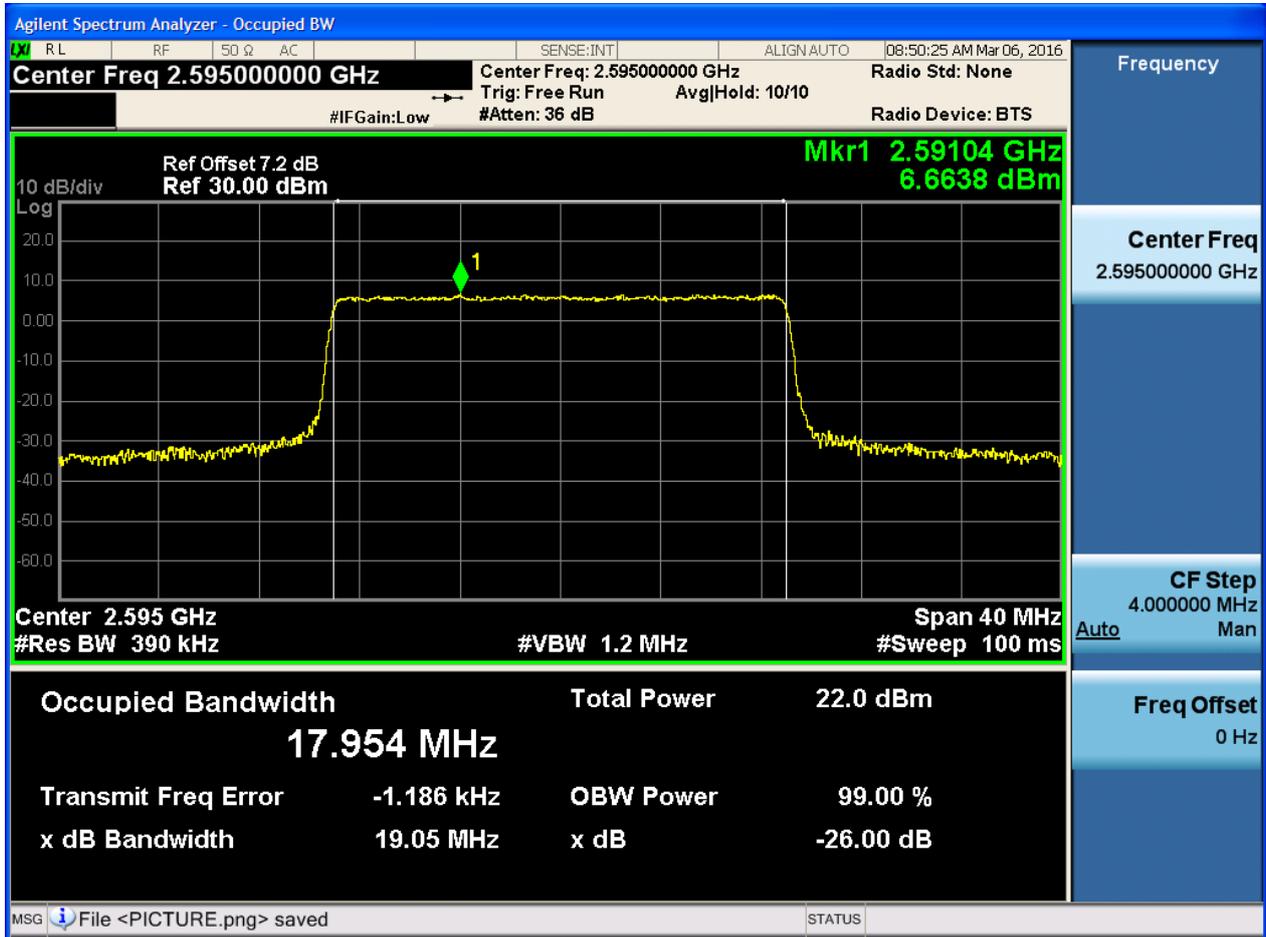
4.1.1.1.4.3 Test Channel = HCH

4.1.1.1.4.3.1 Test RB = RB100#0
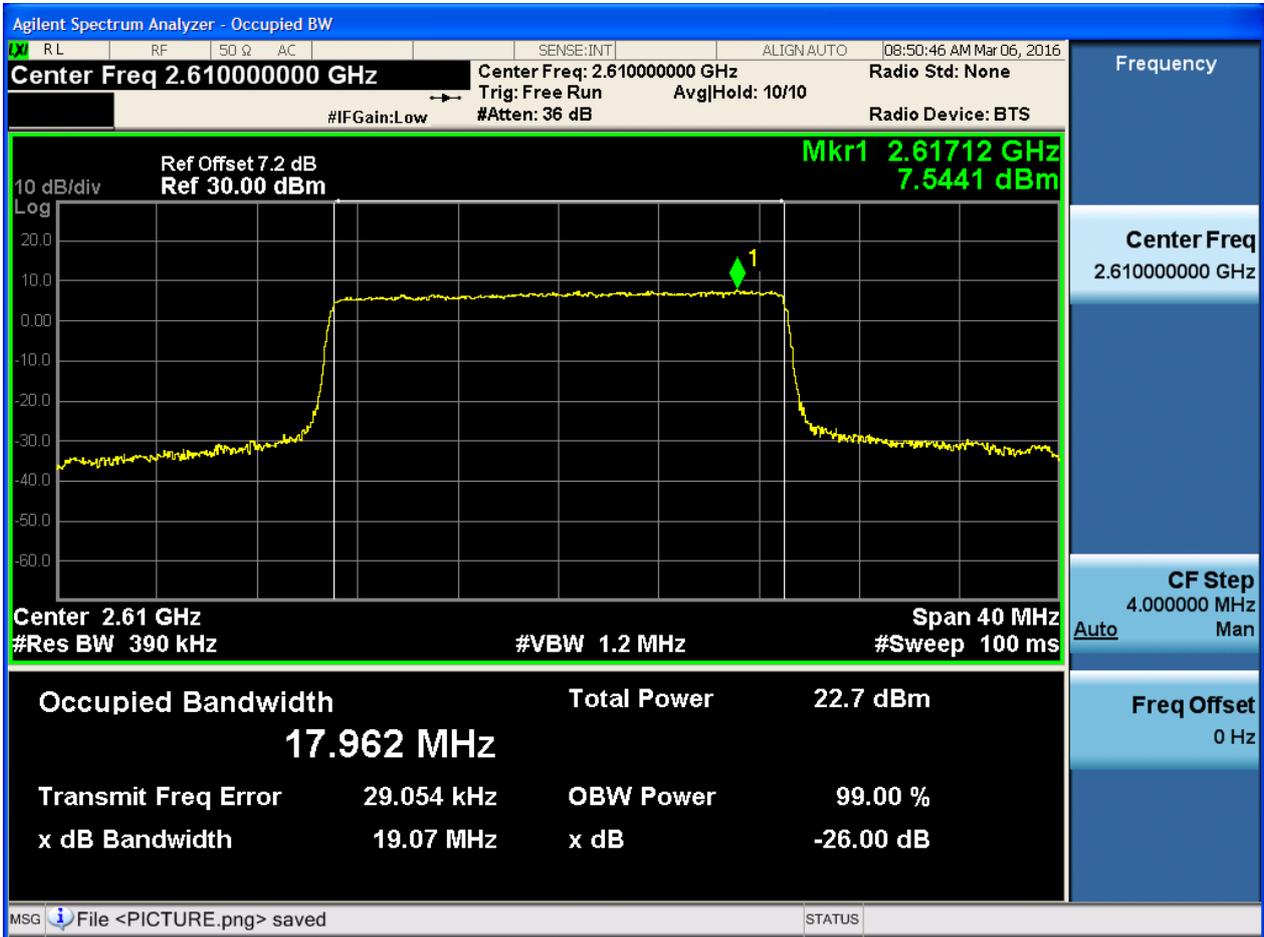
4.1.1.2 Test Mode = LTE/TM2

4.1.1.2.1 Test Bandwidth = 5

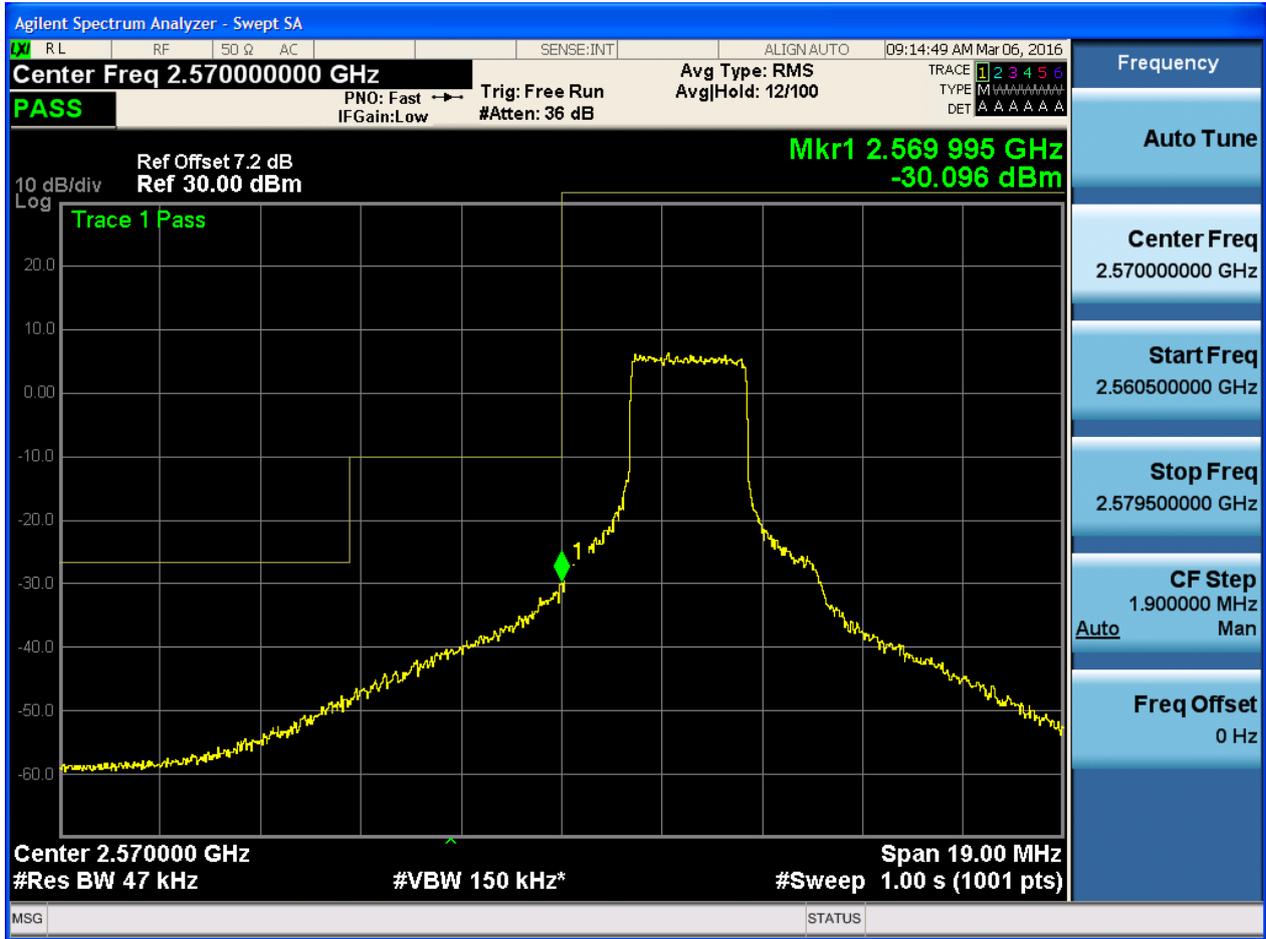### 4.1.1.2.1.1 Test Channel = LCH

4.1.1.2.1.1.1 Test RB = RB25#0
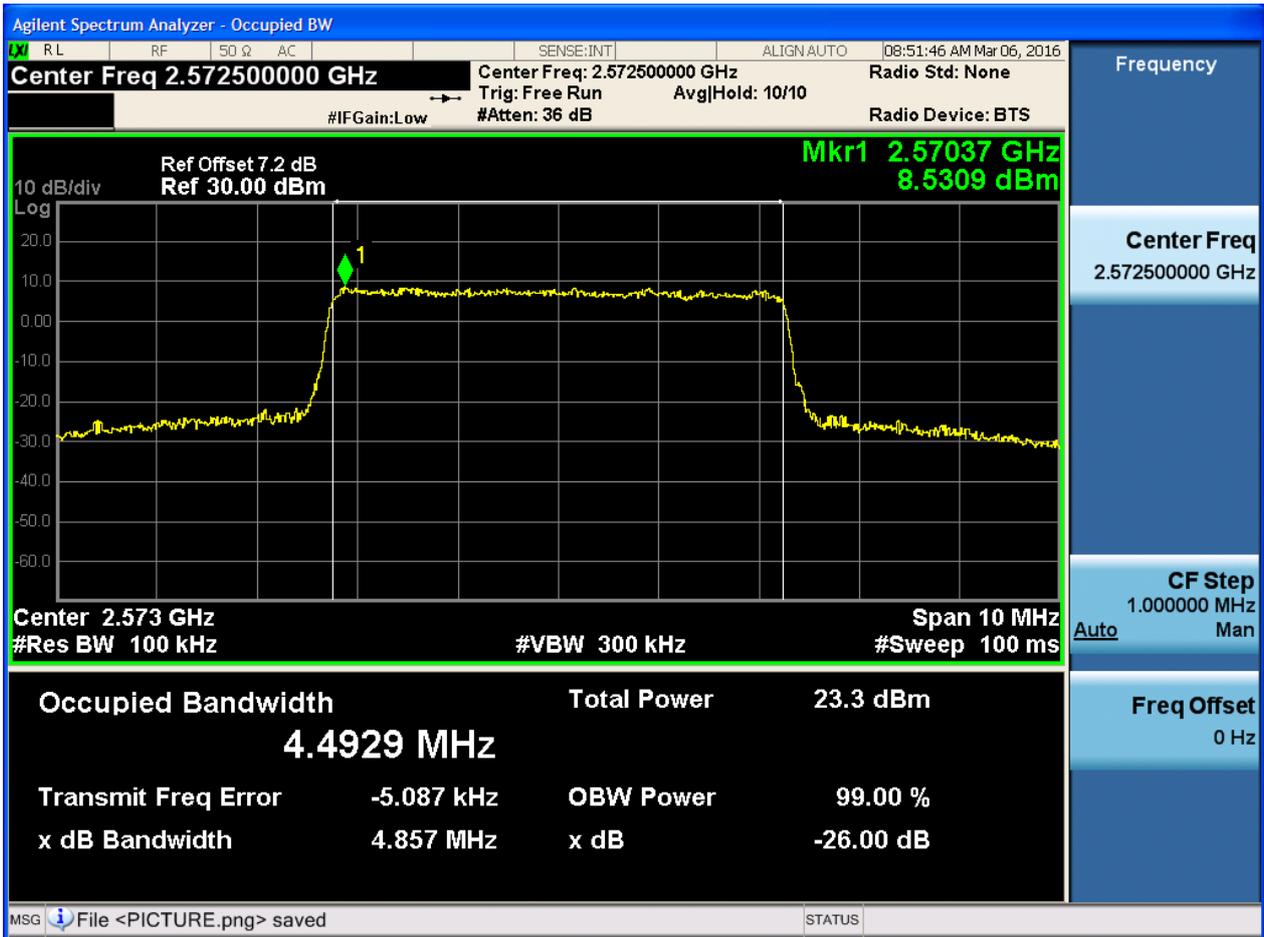
4.1.1.2.1.2 Test Channel = MCH

4.1.1.2.1.2.1 Test RB = RB25#0
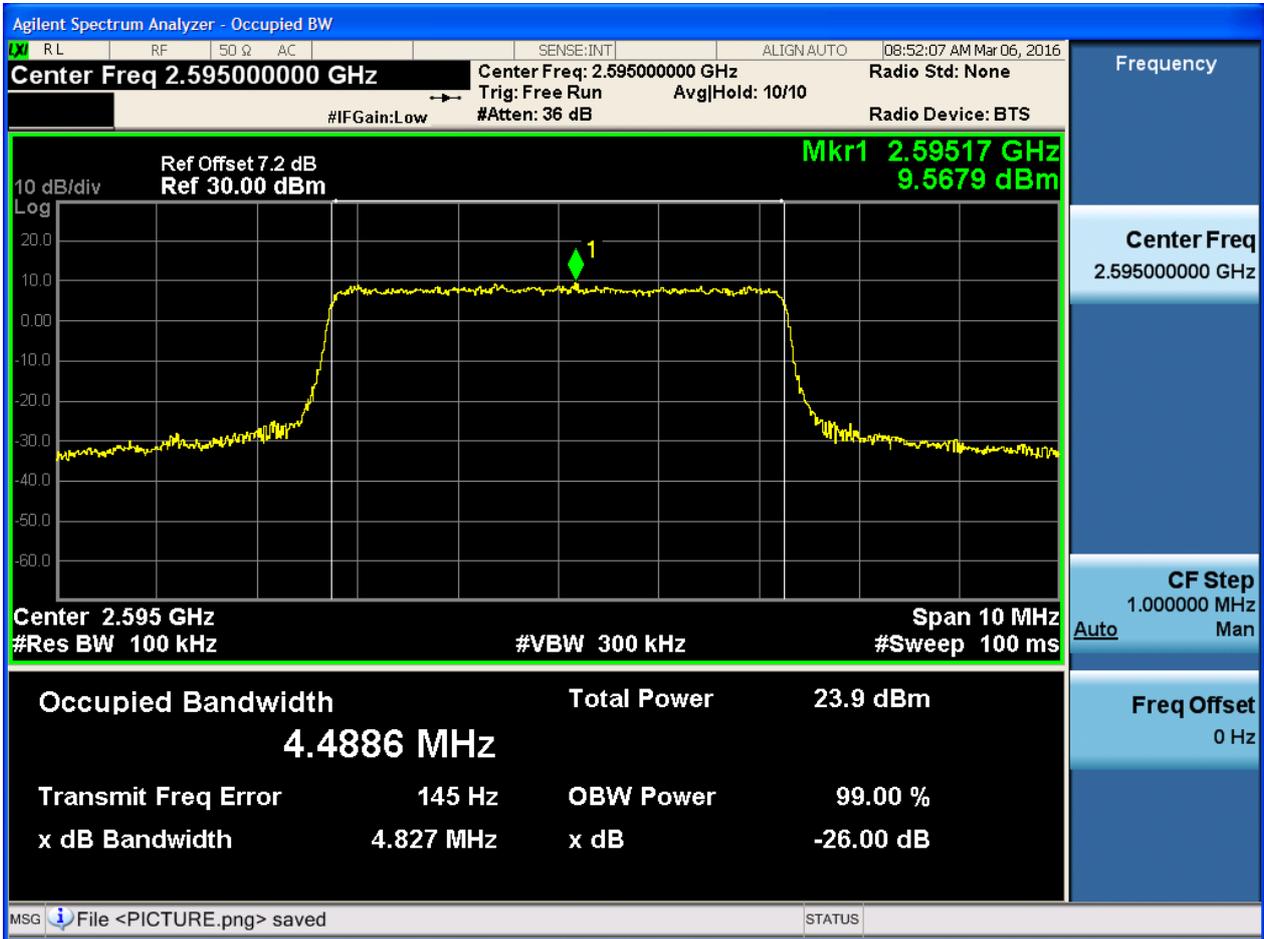
4.1.1.2.1.3 Test Channel = HCH

4.1.1.2.1.3.1 Test RB = RB25#0
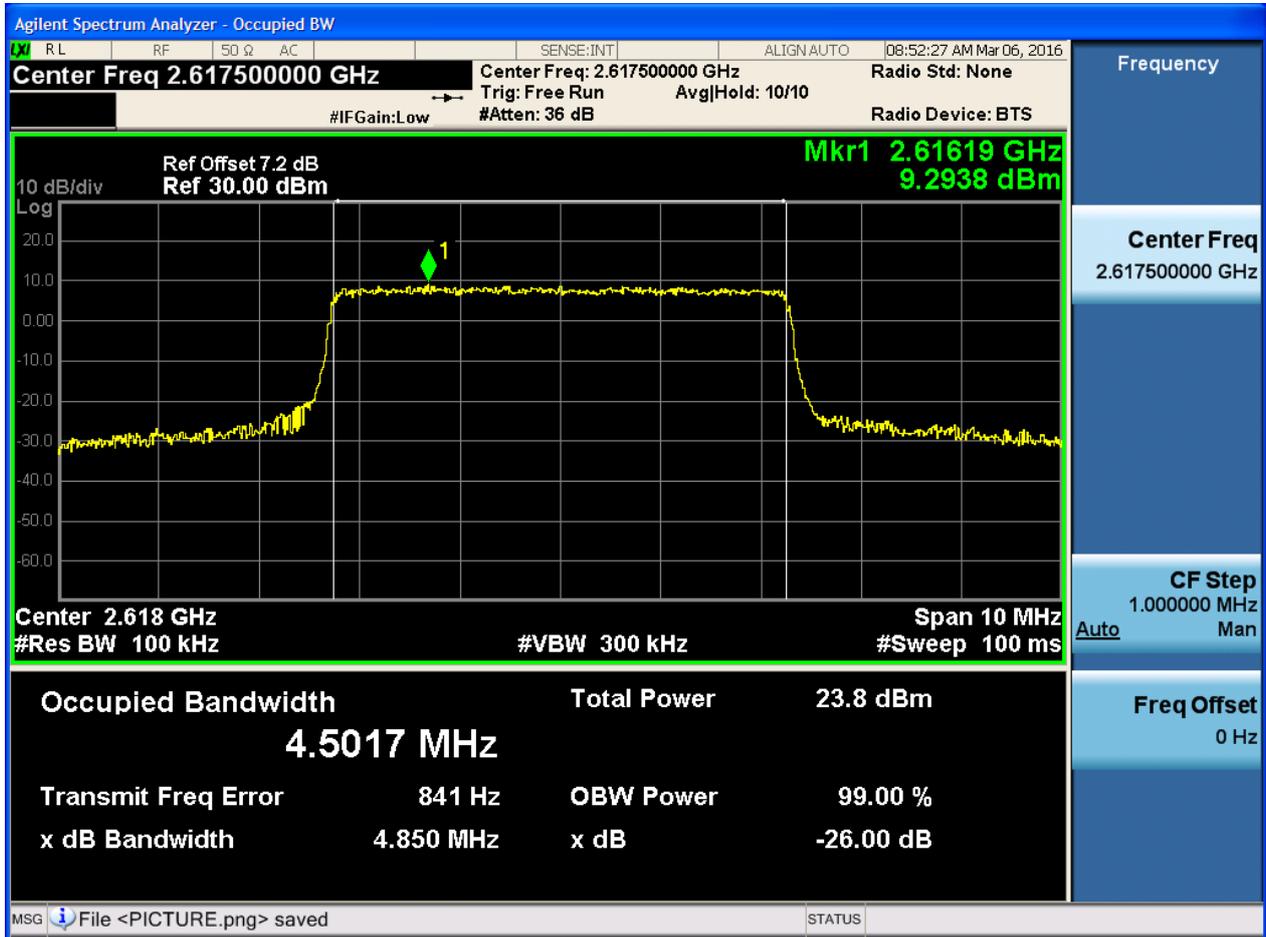
4.1.1.2.2 Test Bandwidth = 10

4.1.1.2.2.1 Test Channel = LCH

4.1.1.2.2.1.1 Test RB = RB50#0
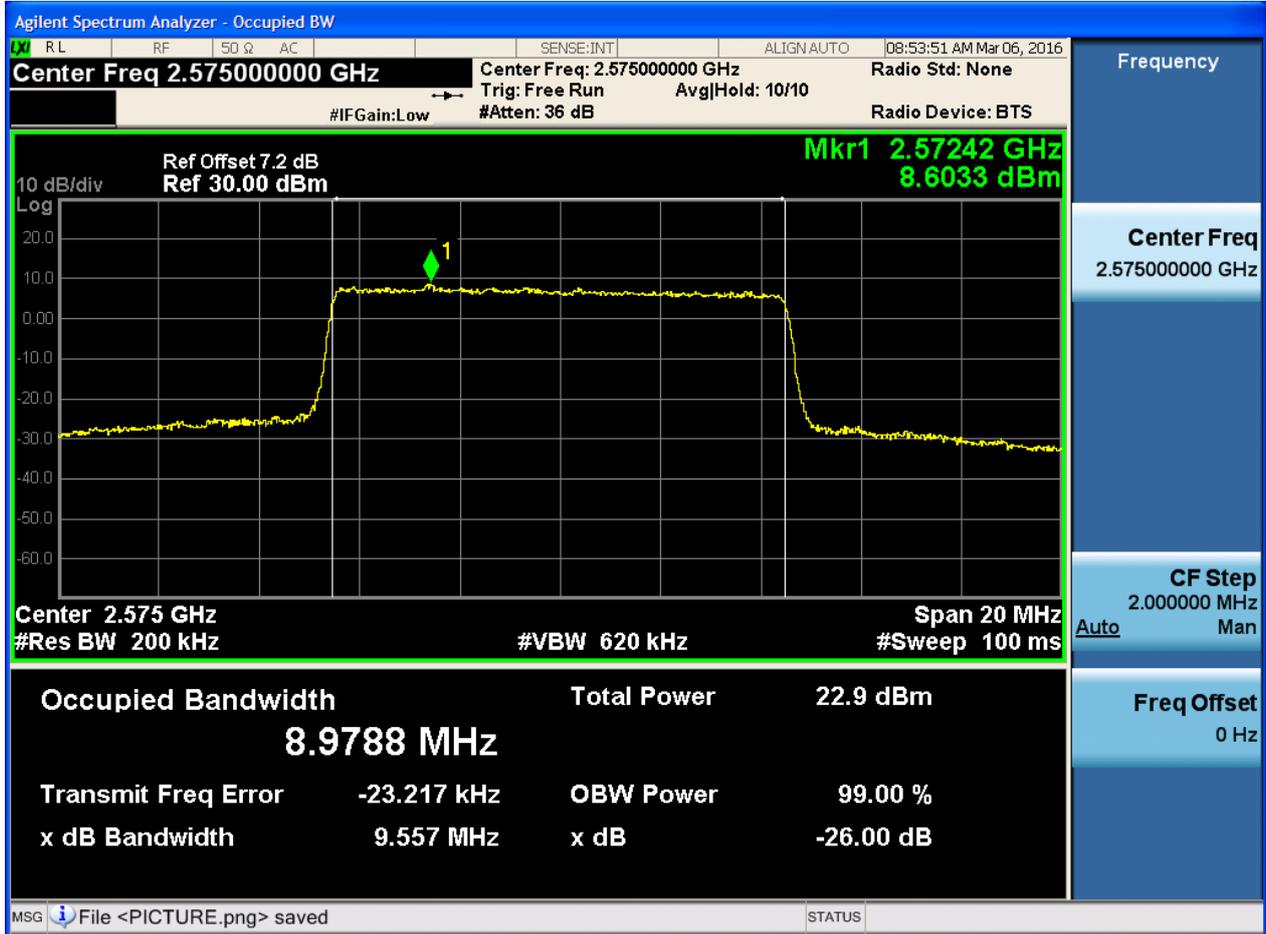
4.1.1.2.2.2 Test Channel = MCH

4.1.1.2.2.2.1 Test RB = RB50#0
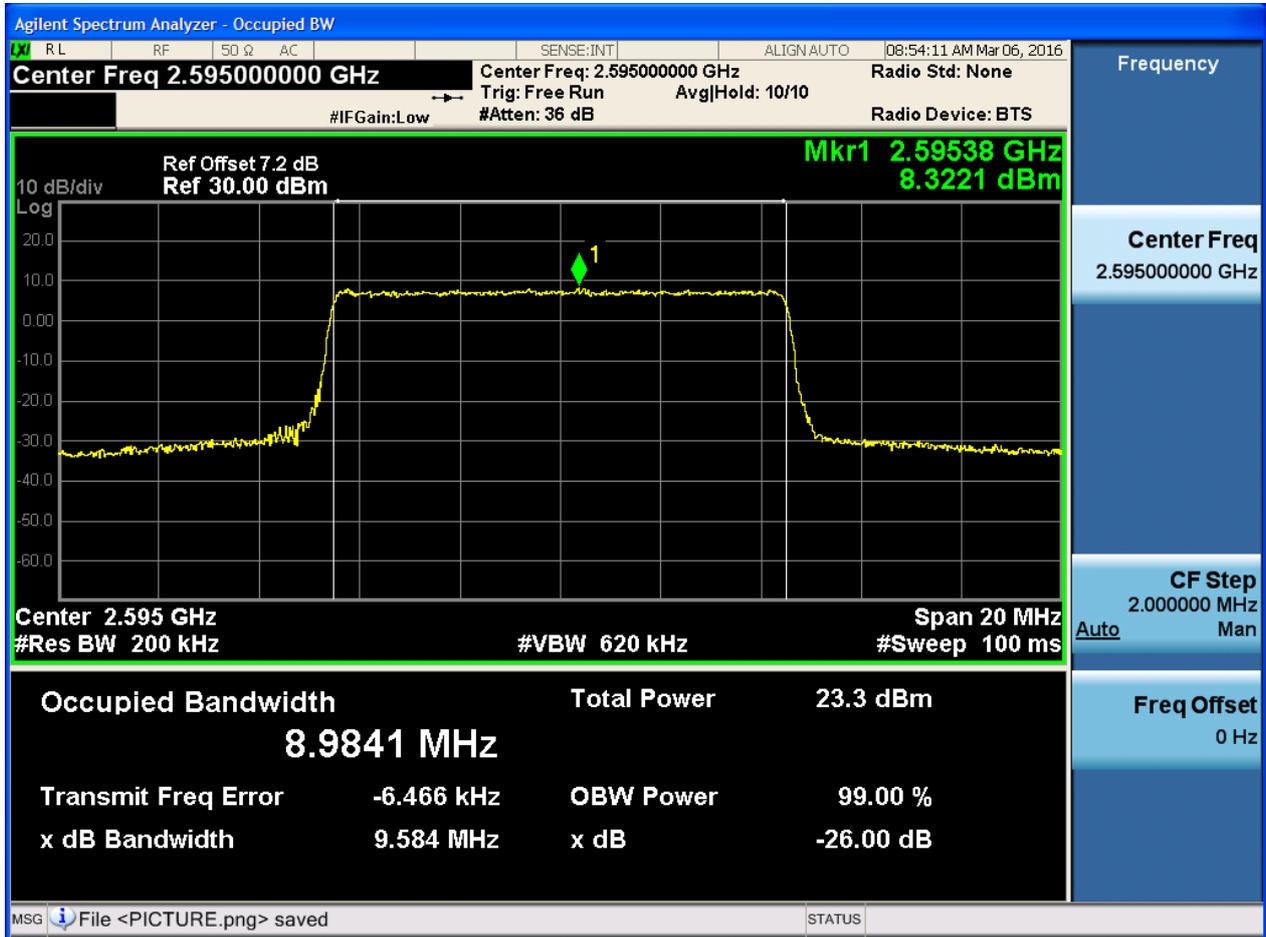
4.1.1.2.2.3 Test Channel = HCH

4.1.1.2.2.3.1 Test RB = RB50#0
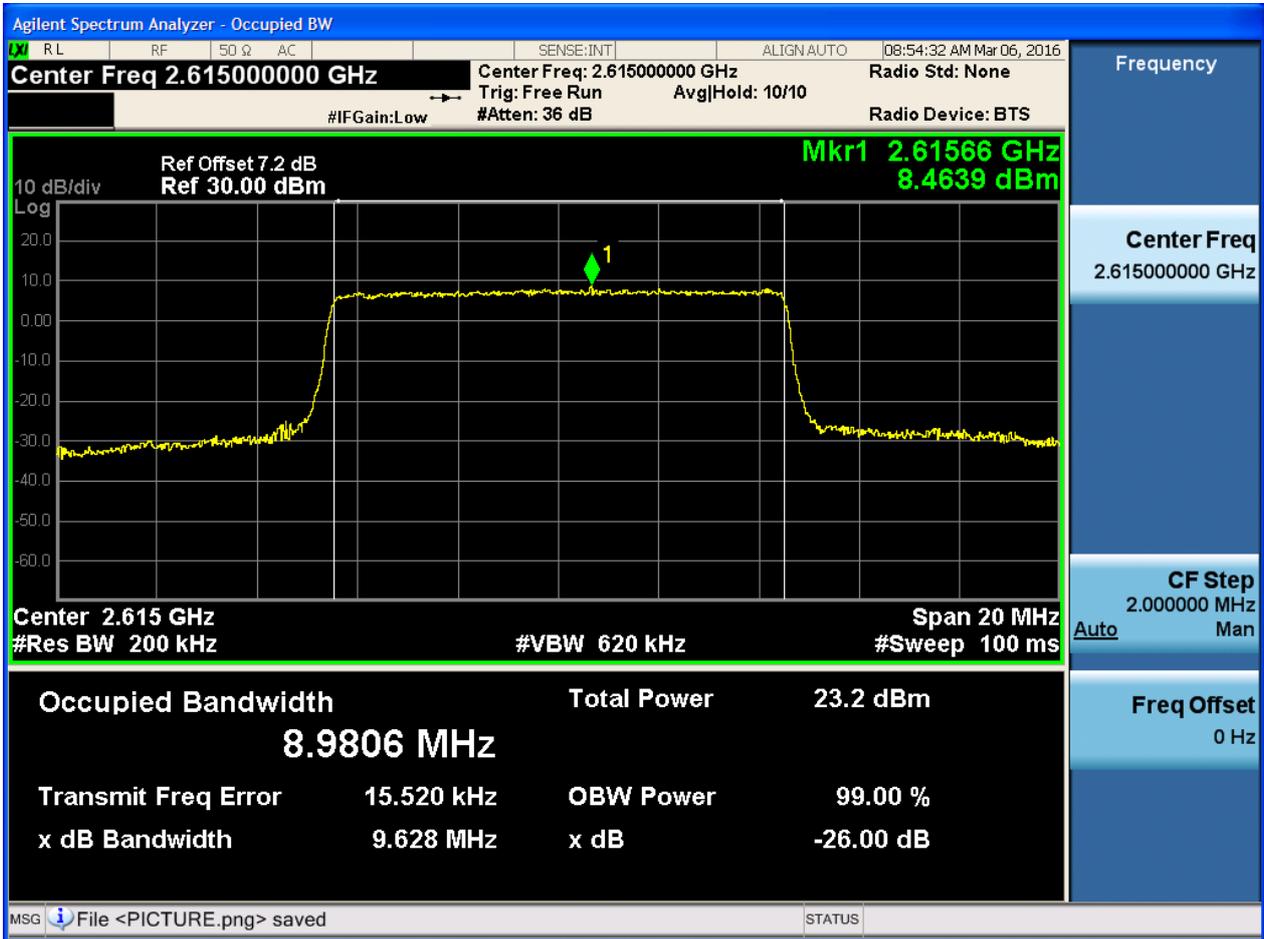
4.1.1.2.3 Test Bandwidth = 15

4.1.1.2.3.1 Test Channel = LCH

4.1.1.2.3.1.1 Test RB = RB75#0
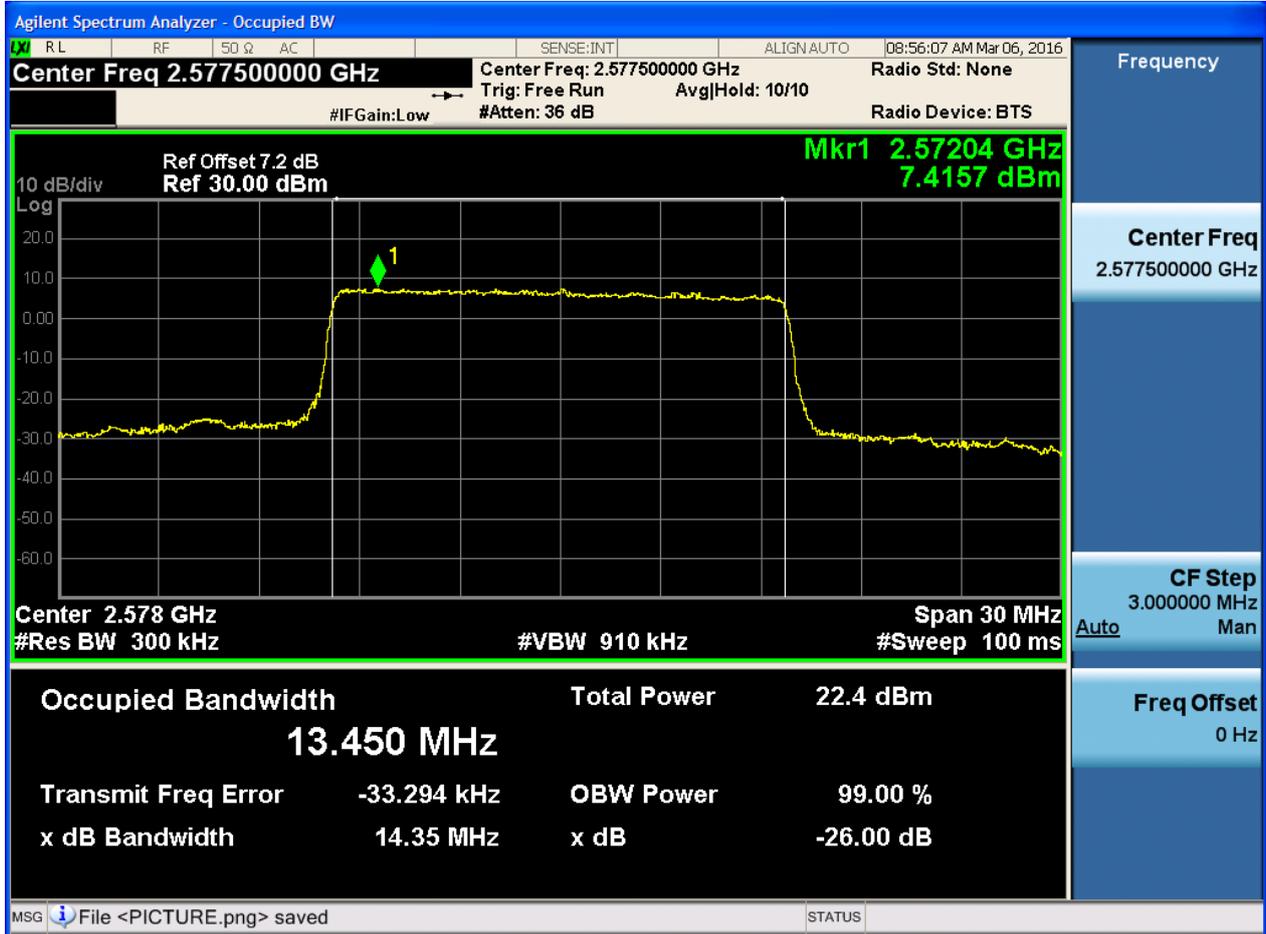
4.1.1.2.3.2 Test Channel = MCH

4.1.1.2.3.2.1 Test RB = RB75#0
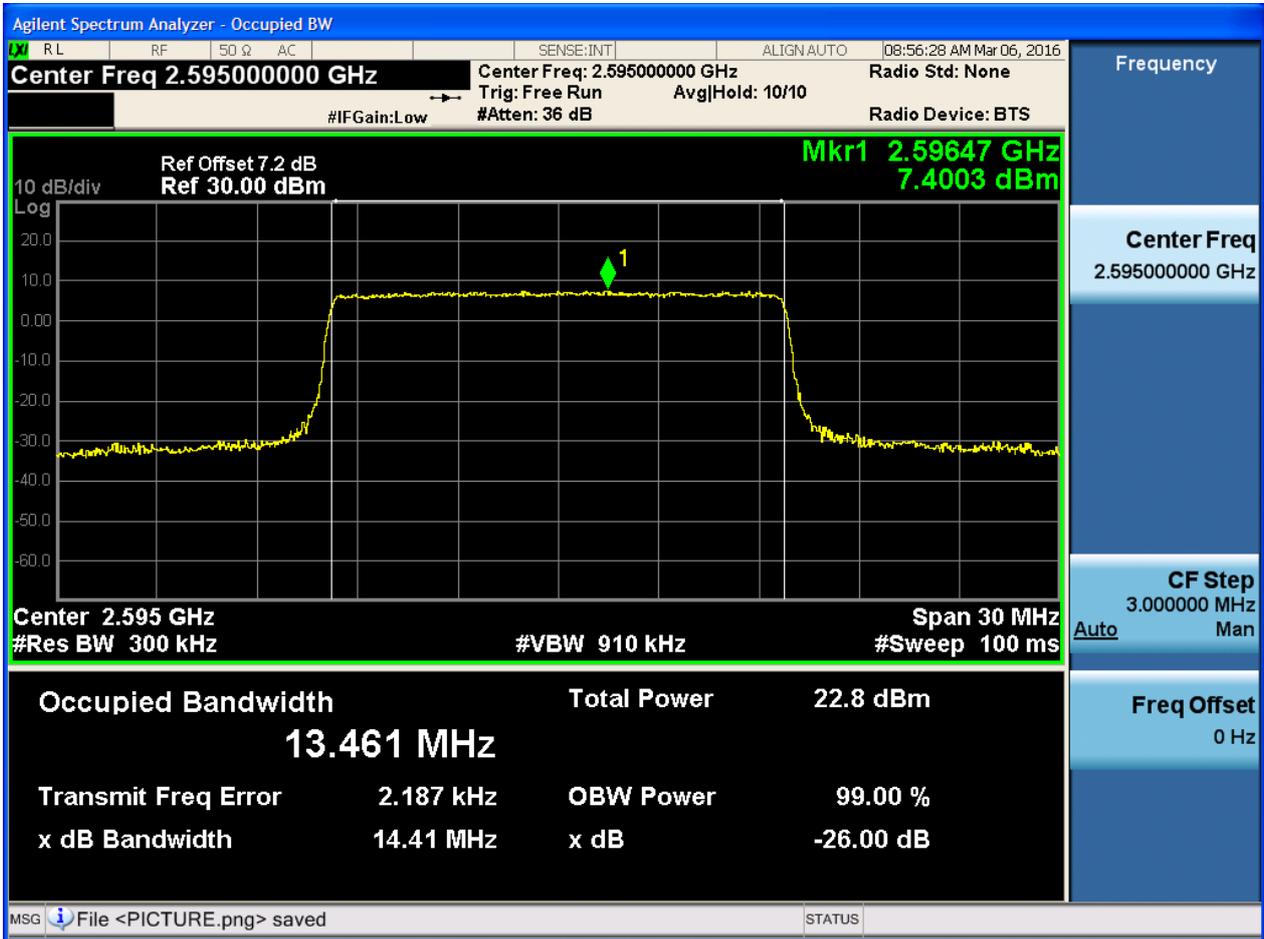
4.1.1.2.3.3 Test Channel = HCH

4.1.1.2.3.3.1 Test RB = RB75#0
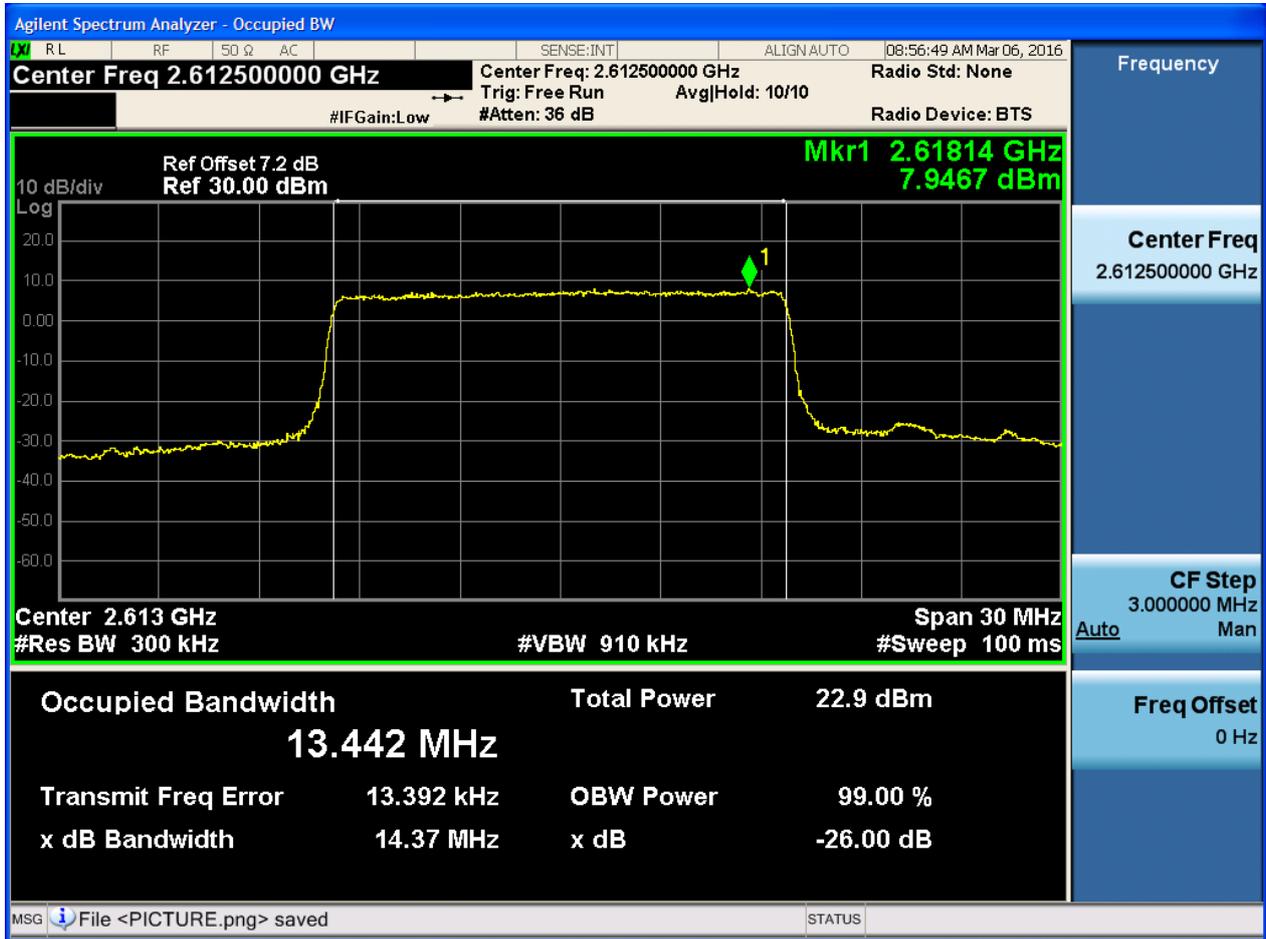
4.1.1.2.4 Test Bandwidth = 20

4.1.1.2.4.1 Test Channel = LCH

4.1.1.2.4.1.1 Test RB = RB100#0

4.1.1.2.4.2 Test Channel = MCH

4.1.1.2.4.2.1 Test RB = RB100#0
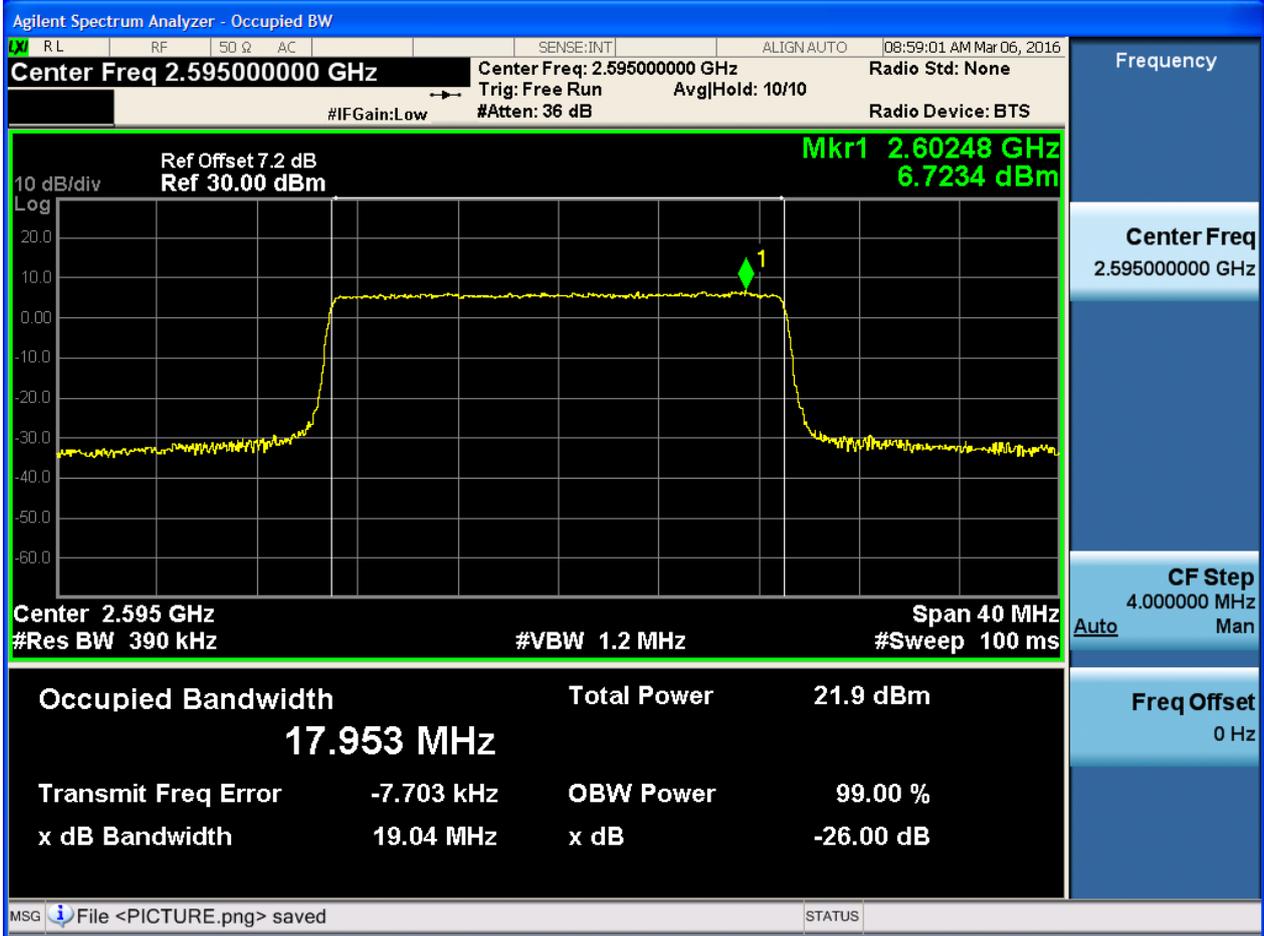
4.1.1.2.4.3 Test Channel = HCH

4.1.1.2.4.3.1 Test RB = RB100#0

Agilent Spectrum Analyzer - Occupied BW

Occupied Bandwidth	Total Power 22.3 dBm
17.936 MHz	
Transmit Freq Error 16.700 kHz	OBW Power 99.00 %
x dB Bandwidth 19.05 MHz	x dB -26.00 dB
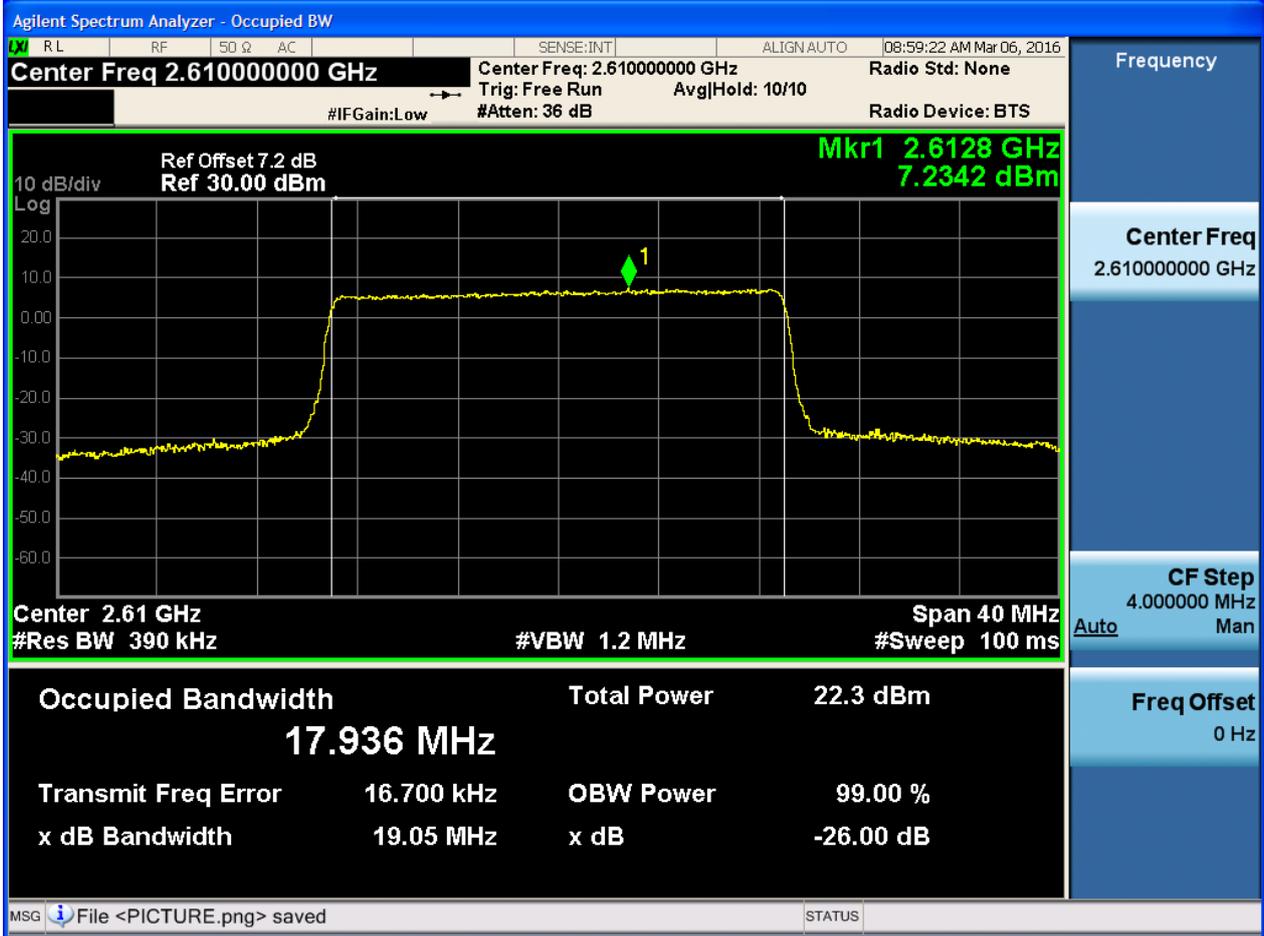
5Appendix_E: Band Edges Compliance

Part I - Test Plots

5.1 For LTE

5.1.1 Test Band = BAND38

5.1.1.1 Test Mode = LTE/TM1

5.1.1.1.1 Test Bandwidth = 5

5.1.1.1.1.1 Test Channel = LCH

5.1.1.1.1.1.1 Test RB = RB1#0
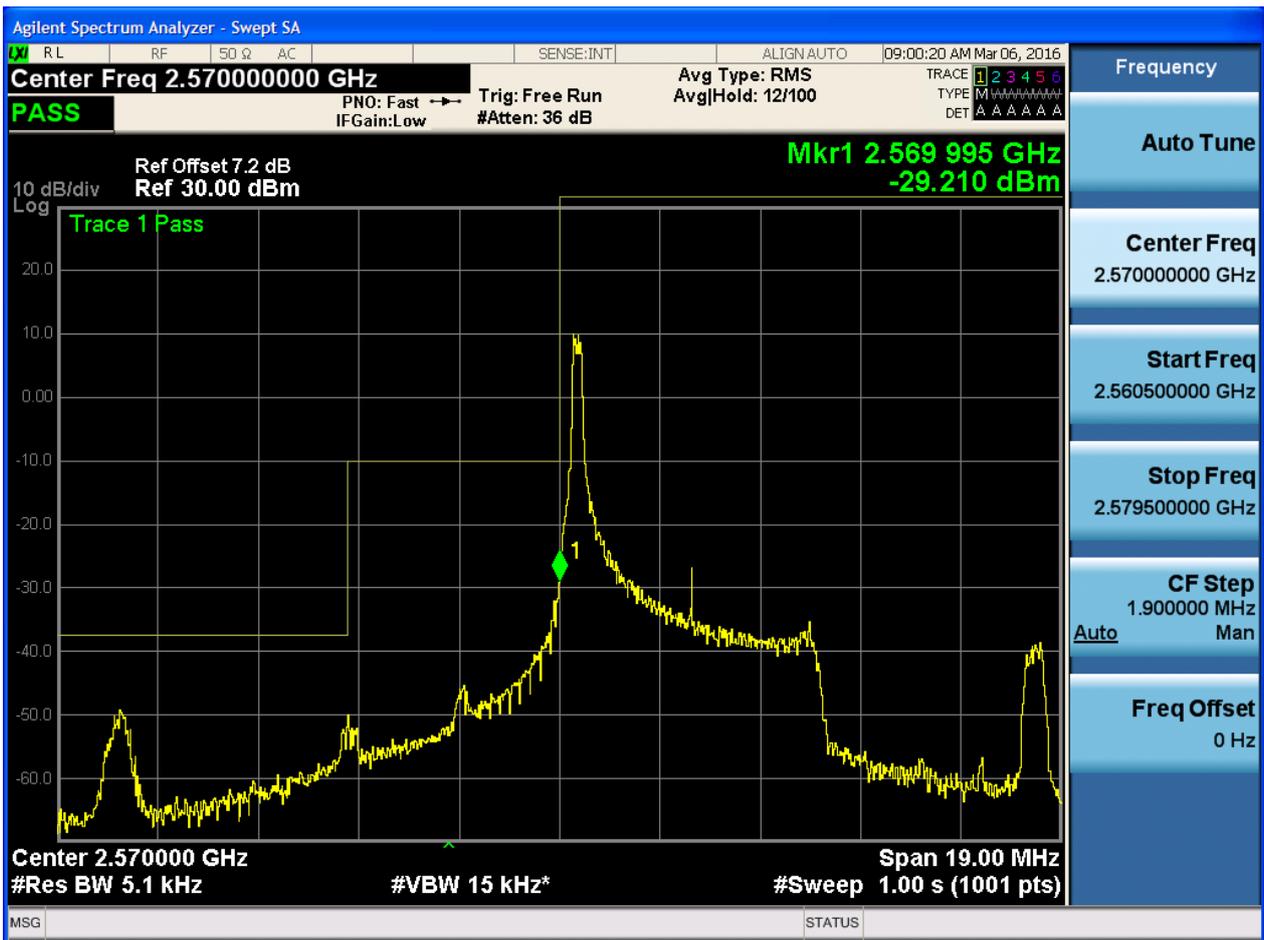
5.1.1.1.1.1.2 Test RB = RB1#24

5.1.1.1.1.1.3 Test RB = RB12#6

5.1.1.1.1.1.4 Test RB = RB25#0

5.1.1.1.1.2 Test Channel = HCH

5.1.1.1.1.2.1 Test RB = RB1#0

5.1.1.1.1.2.2 Test RB = RB1#24

5.1.1.1.1.2.3 Test RB = RB12#6
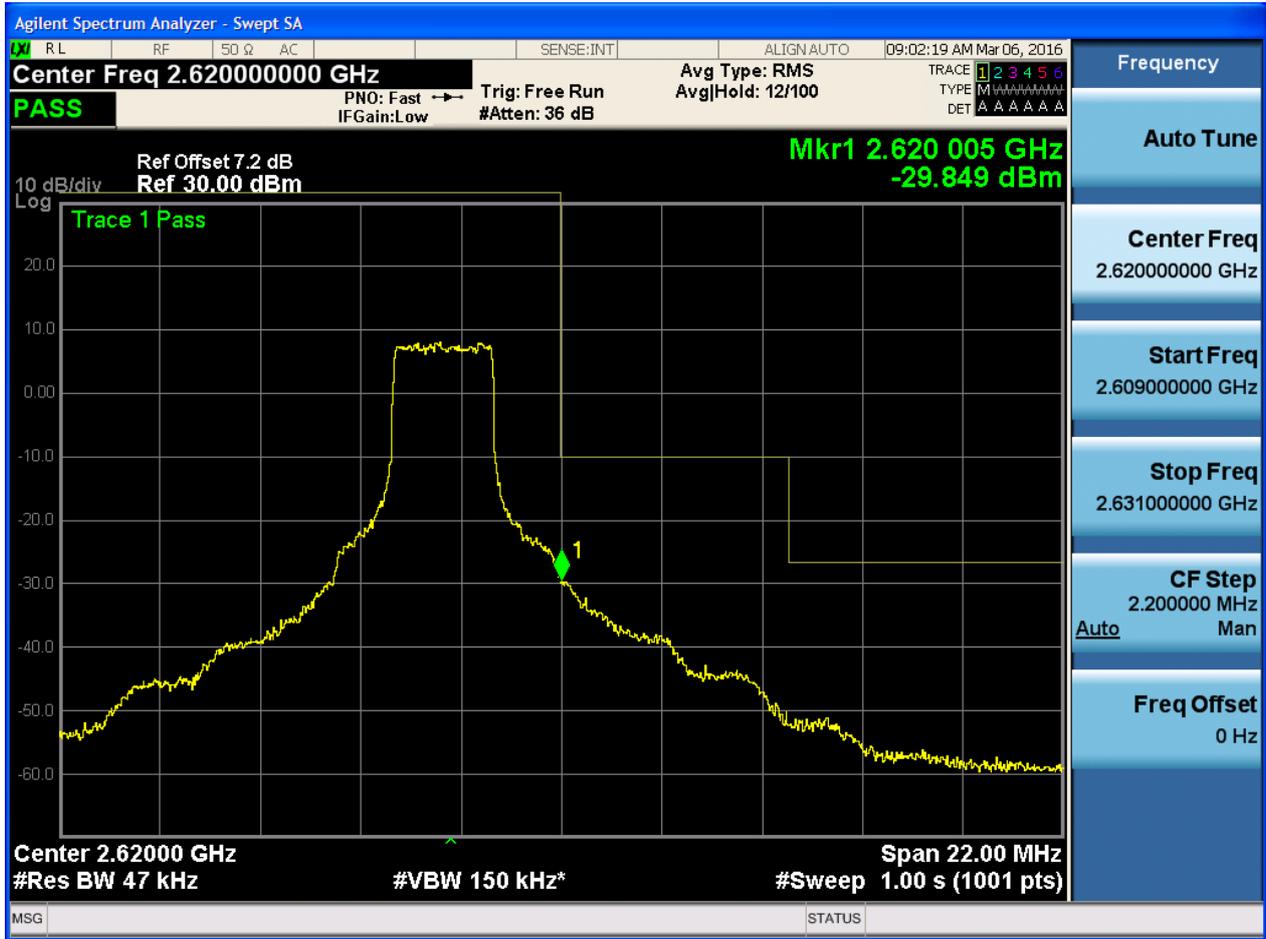
5.1.1.1.1.2.4 Test RB = RB25#0
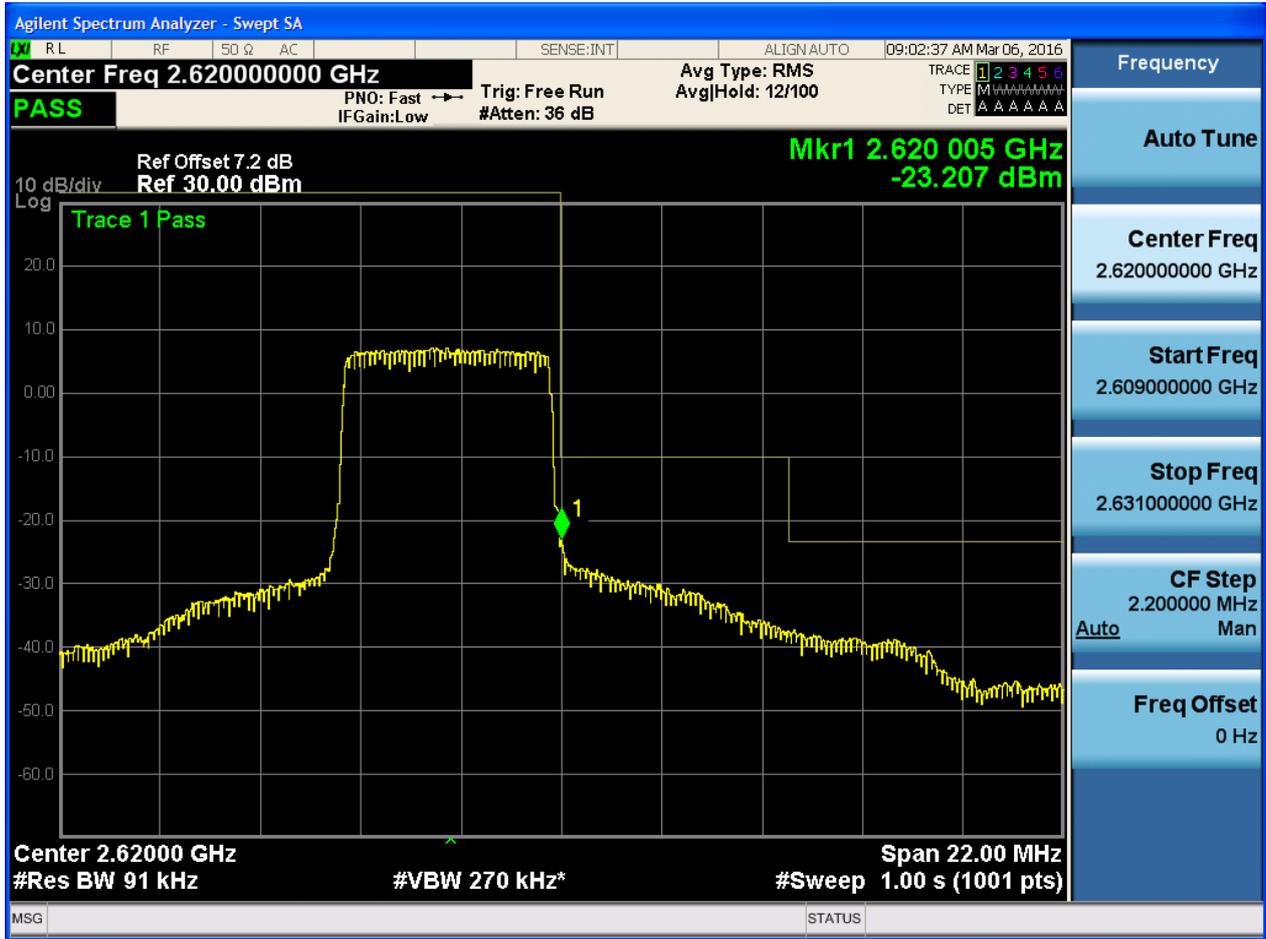
5.1.1.1.2 Test Bandwidth = 10

5.1.1.1.2.1 Test Channel = LCH

5.1.1.1.2.1.1 Test RB = RB1#0
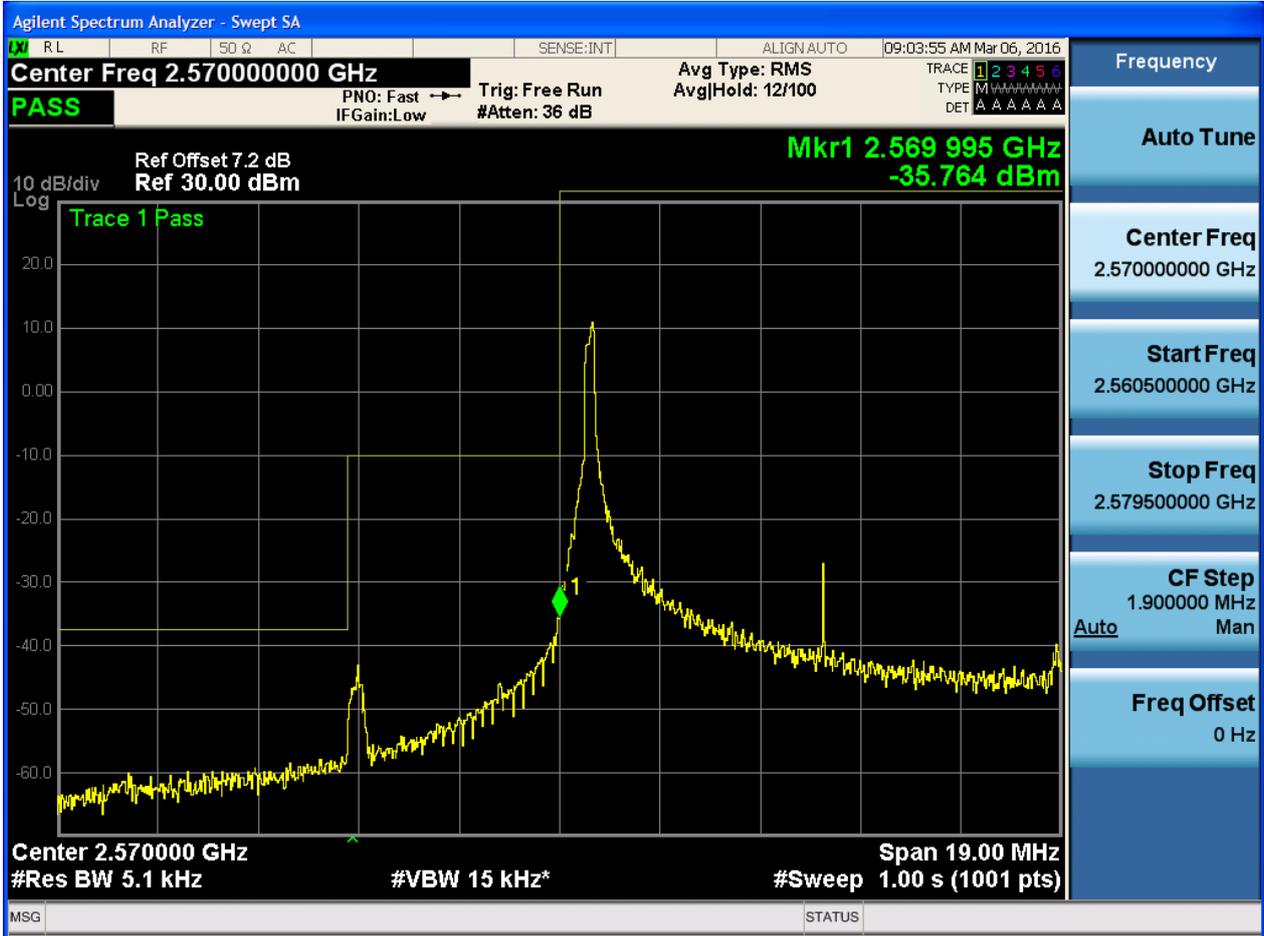
5.1.1.1.2.1.2 Test RB = RB1#49

5.1.1.1.2.1.3 Test RB = RB25#13

5.1.1.1.2.1.4 Test RB = RB50#0

5.1.1.1.2.2 Test Channel = HCH

5.1.1.1.2.2.1 Test RB = RB1#0

5.1.1.1.2.2.2 Test RB = RB1#49

5.1.1.1.2.2.3 Test RB = RB25#13
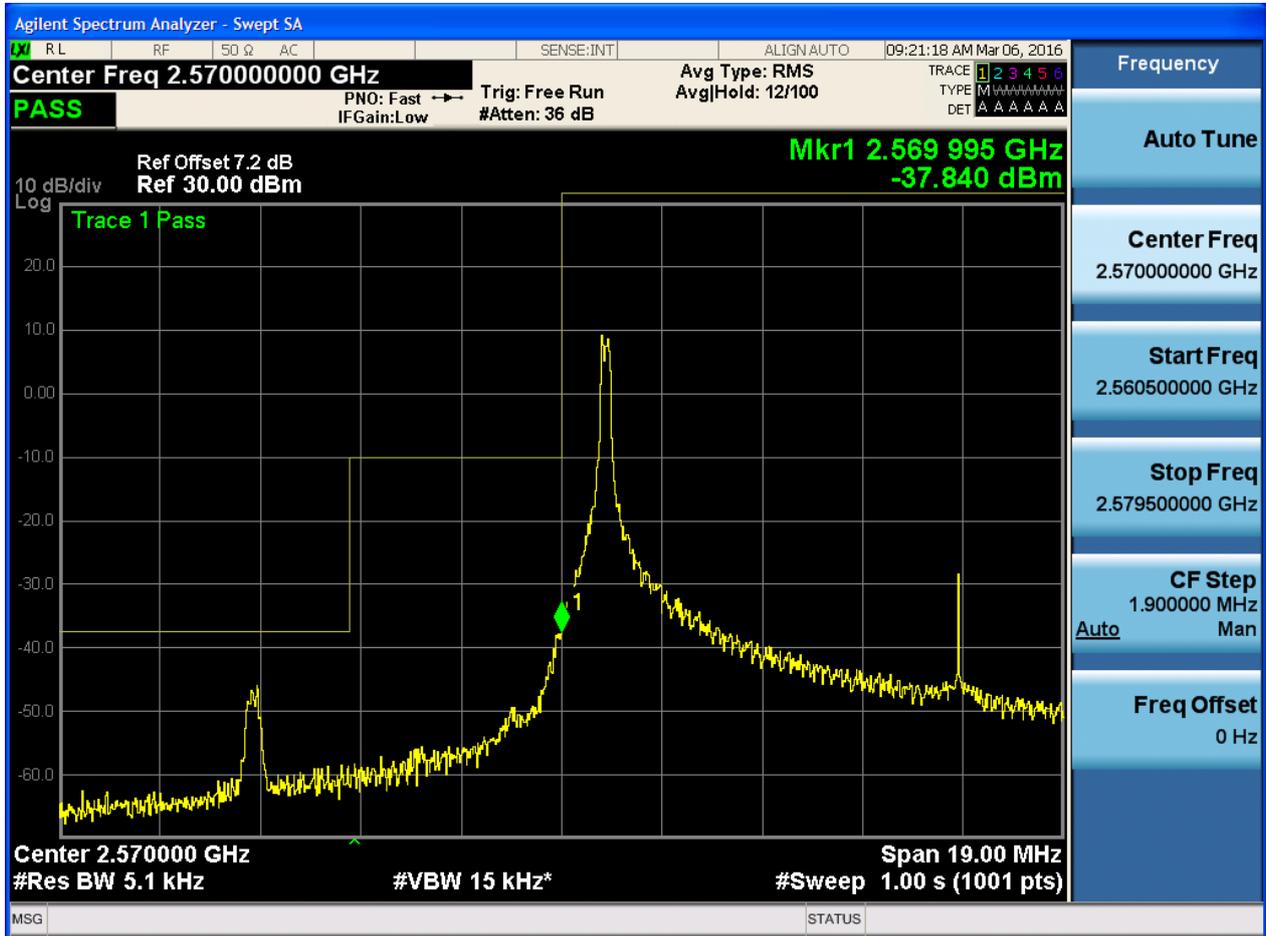
5.1.1.1.2.2.4 Test RB = RB50#0

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5.1.1.1.3 Test Bandwidth = 15

5.1.1.1.3.1 Test Channel = LCH

5.1.1.1.3.1.1 Test RB = RB1#0

5.1.1.1.3.1.2 Test RB = RB1#74

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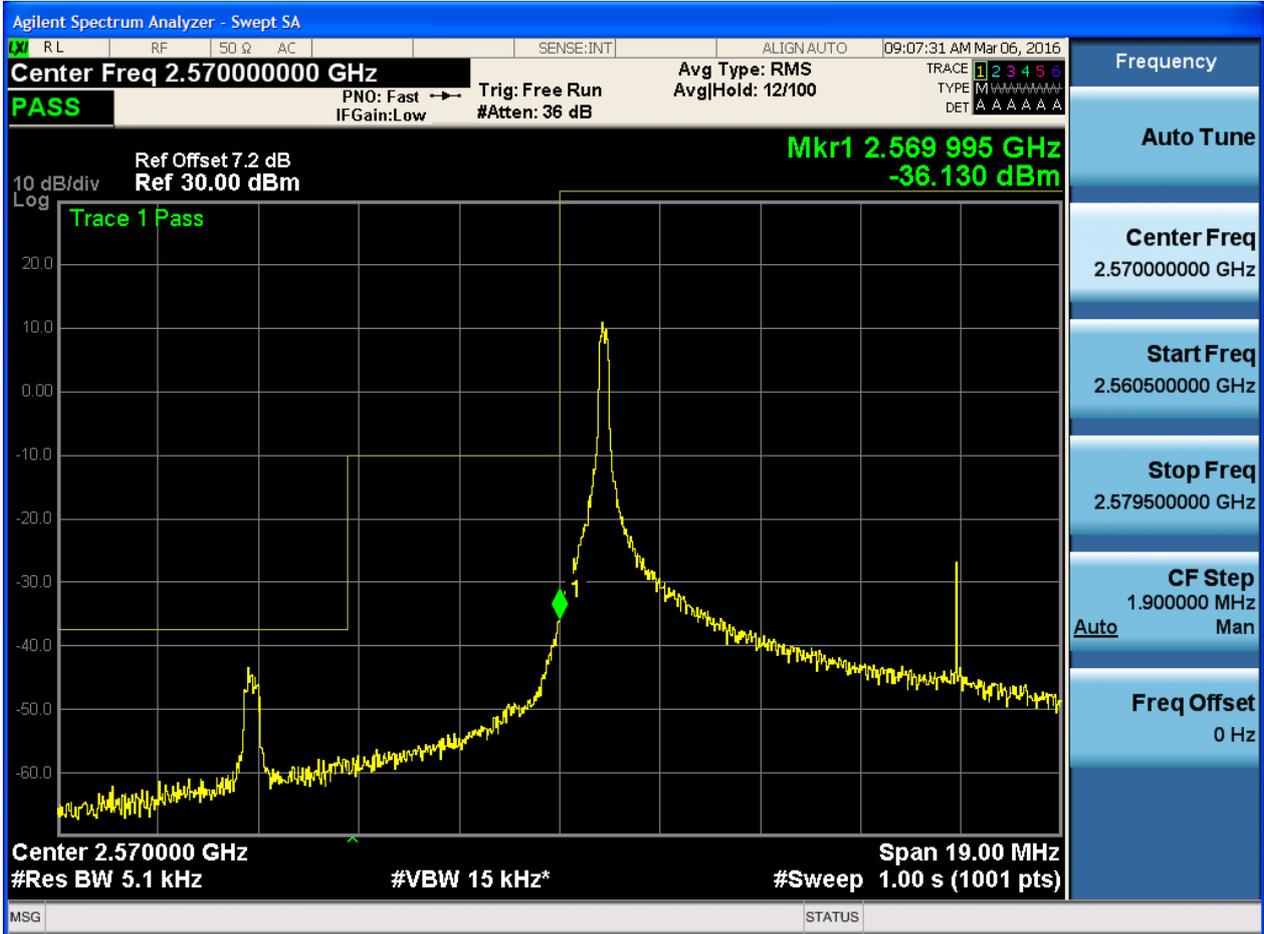
5.1.1.1.3.1.3 Test RB = RB36#18
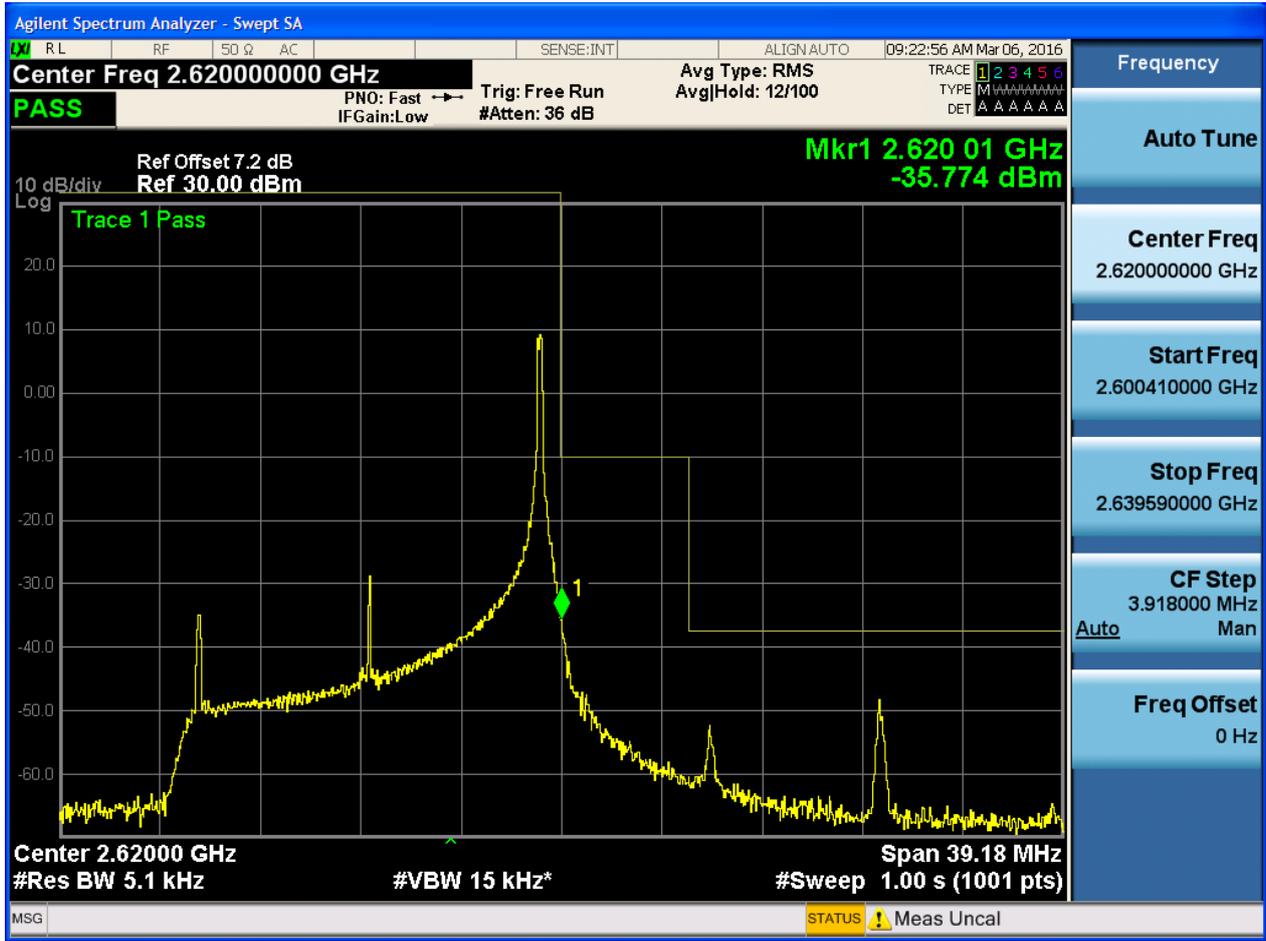
5.1.1.1.3.1.4 Test RB = RB75#0

5.1.1.1.3.2 Test Channel = HCH

5.1.1.1.3.2.1 Test RB = RB1#0
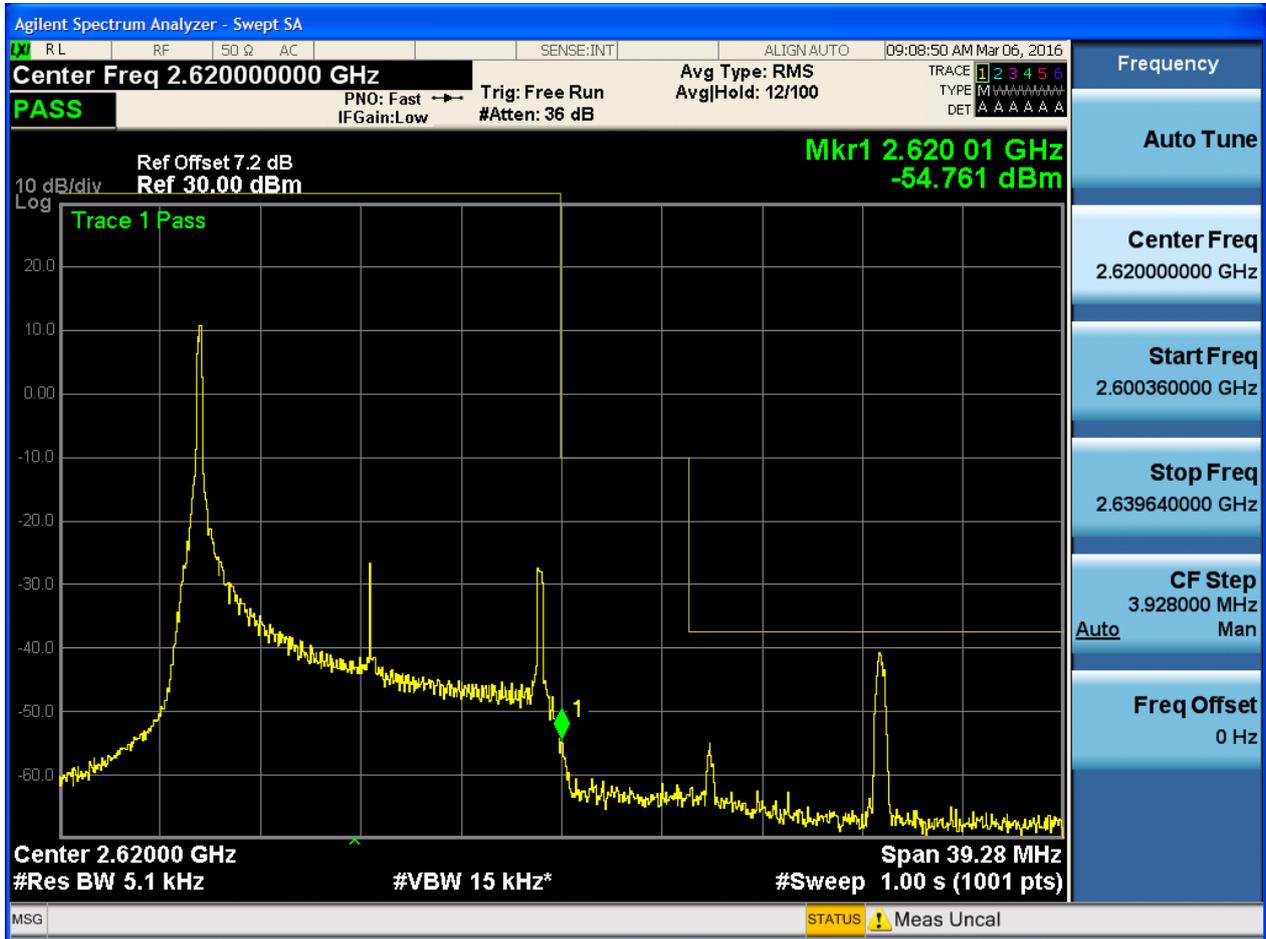
5.1.1.1.3.2.2 Test RB = RB1#74

5.1.1.1.3.2.3 Test RB = RB36#18

## 5.1.1.1.3.2.4 Test RB = RB75#0

5.1.1.1.4 Test Bandwidth = 20

5.1.1.1.4.1 Test Channel = LCH

5.1.1.1.4.1.1 Test RB = RB1#0
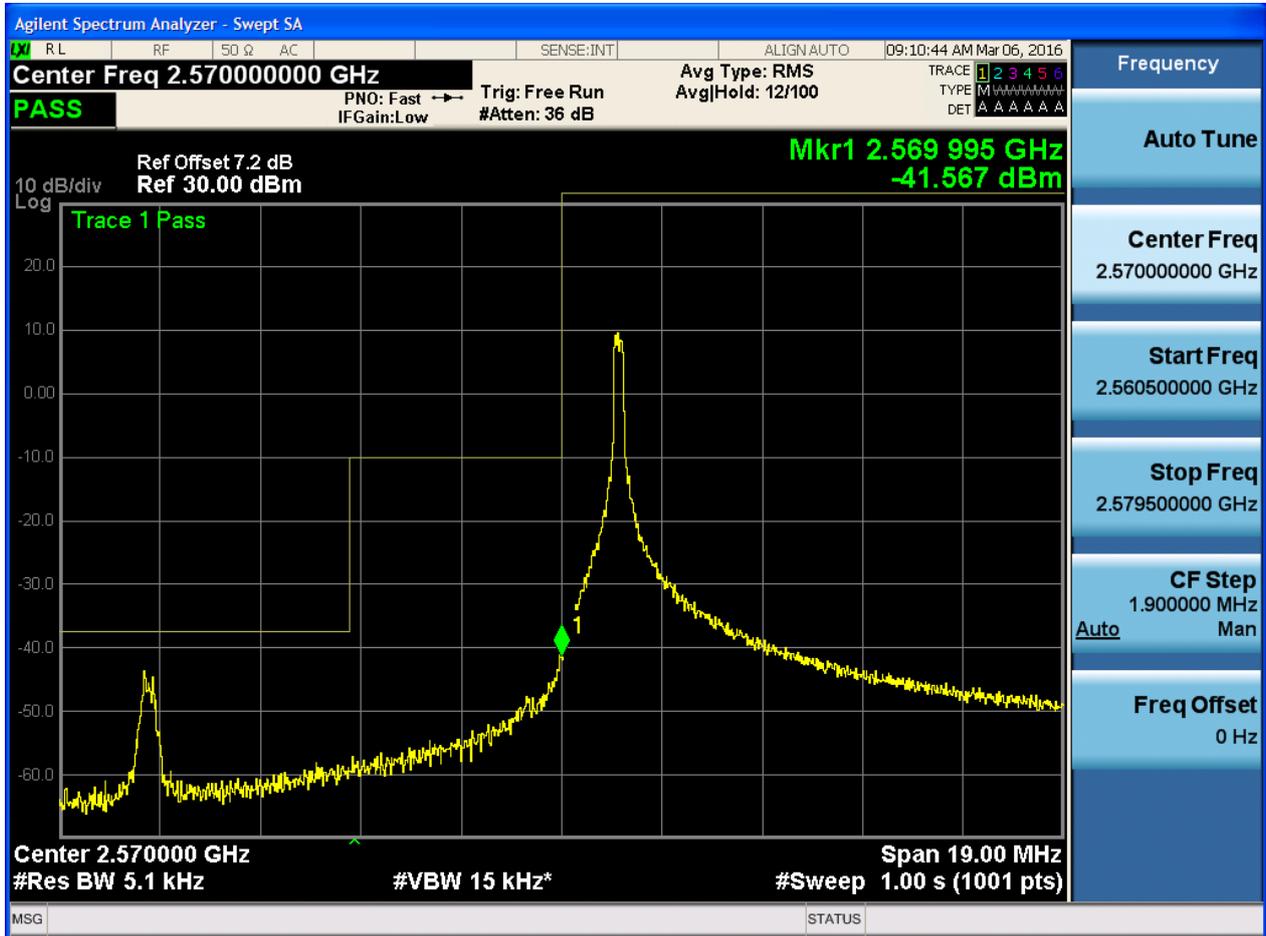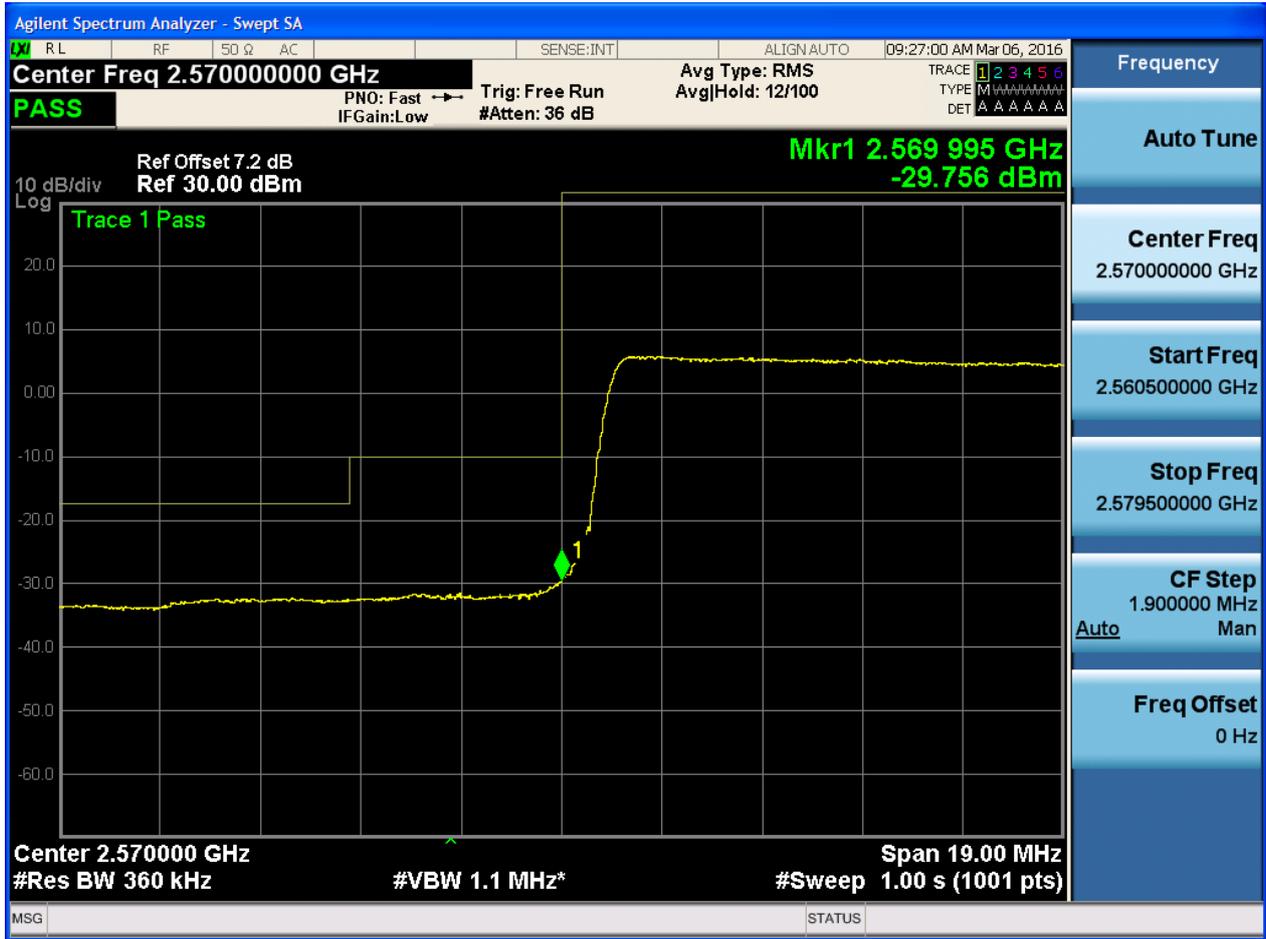
5.1.1.1.4.1.2 Test RB = RB1#99
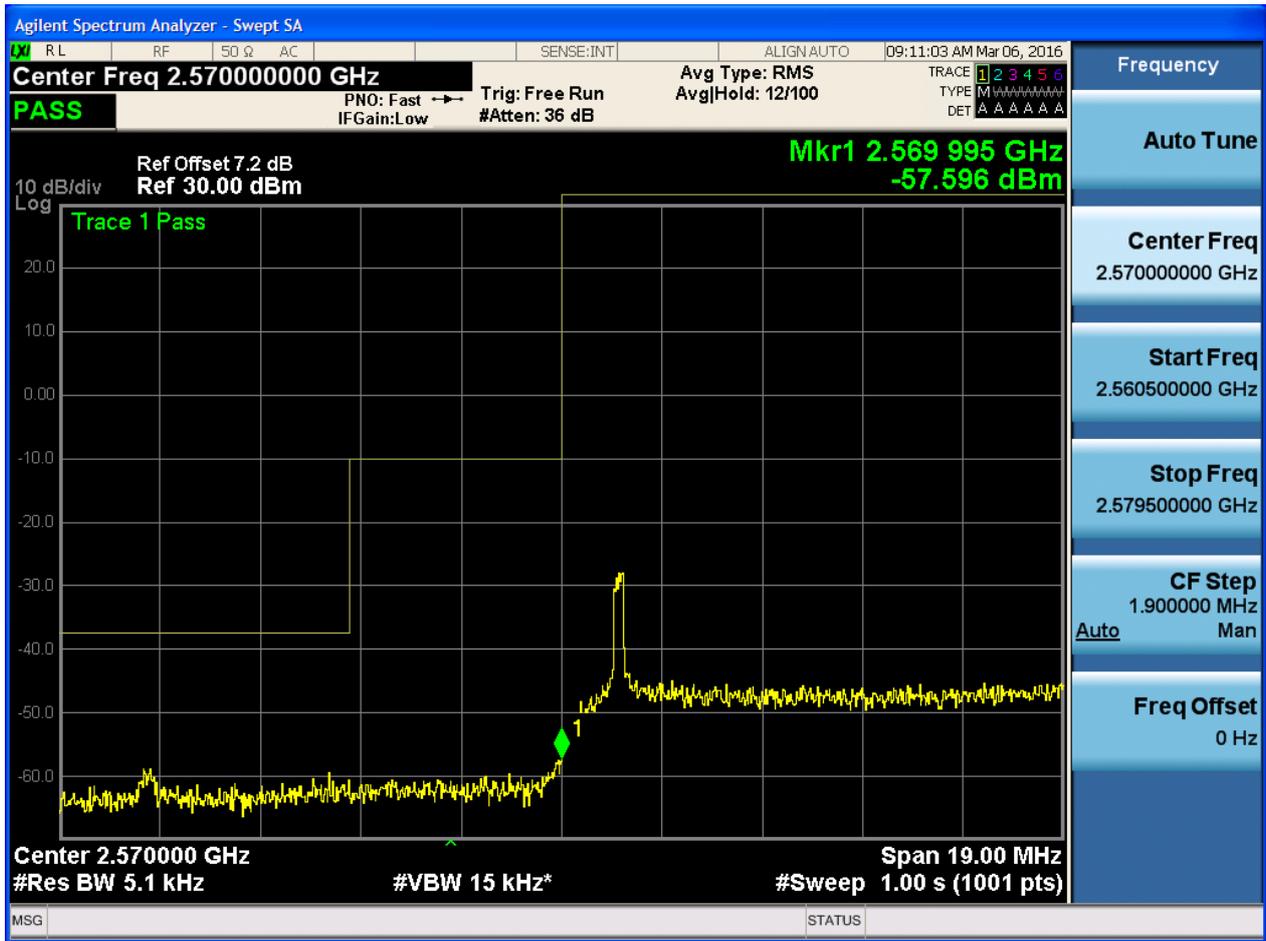
5.1.1.1.4.1.3 Test RB = RB50#25

5.1.1.1.4.1.4 Test RB = RB100#0

5.1.1.1.4.2 Test Channel = HCH

5.1.1.1.4.2.1 Test RB = RB1#0
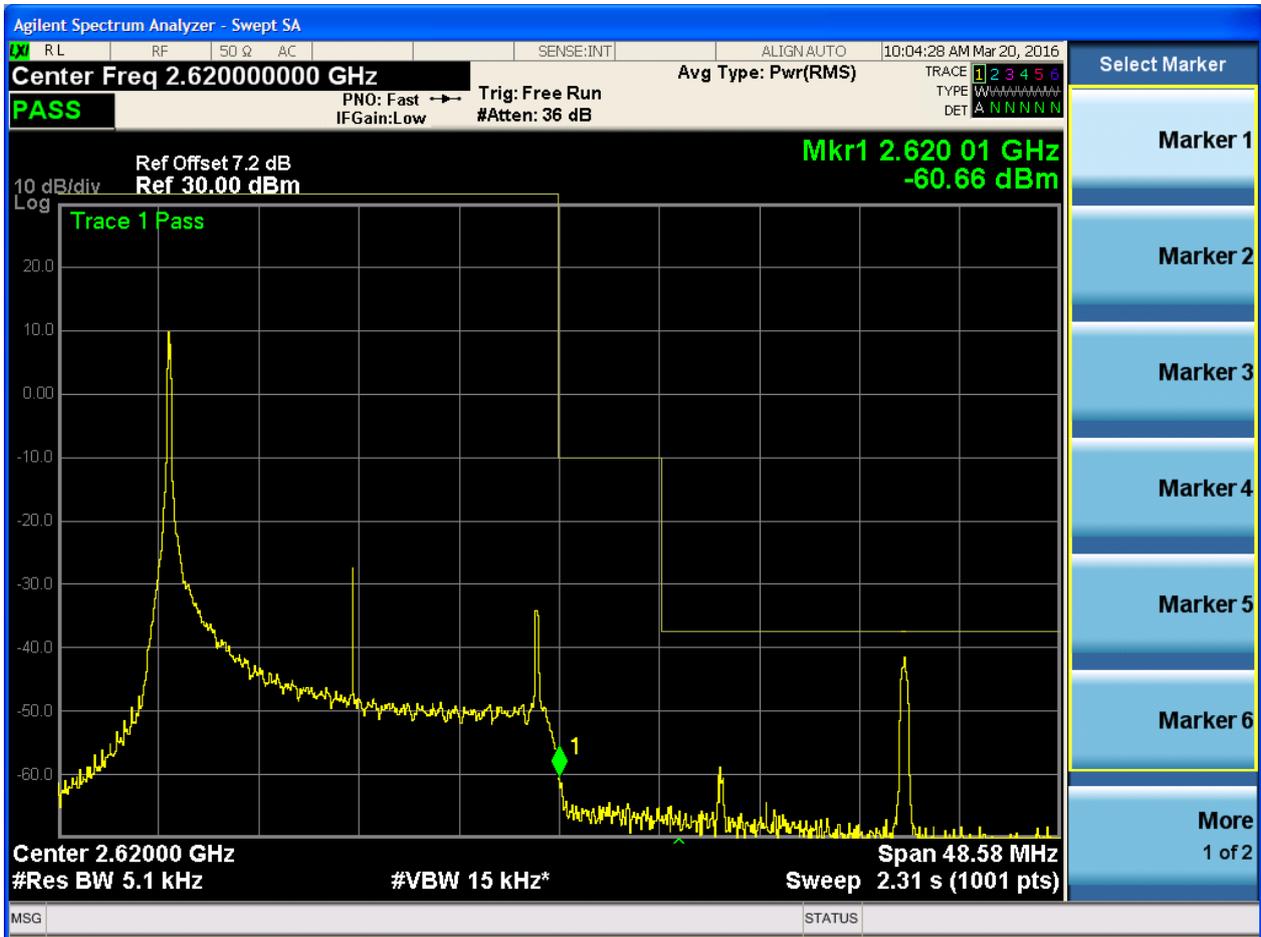
5.1.1.1.4.2.2 Test RB = RB1#99
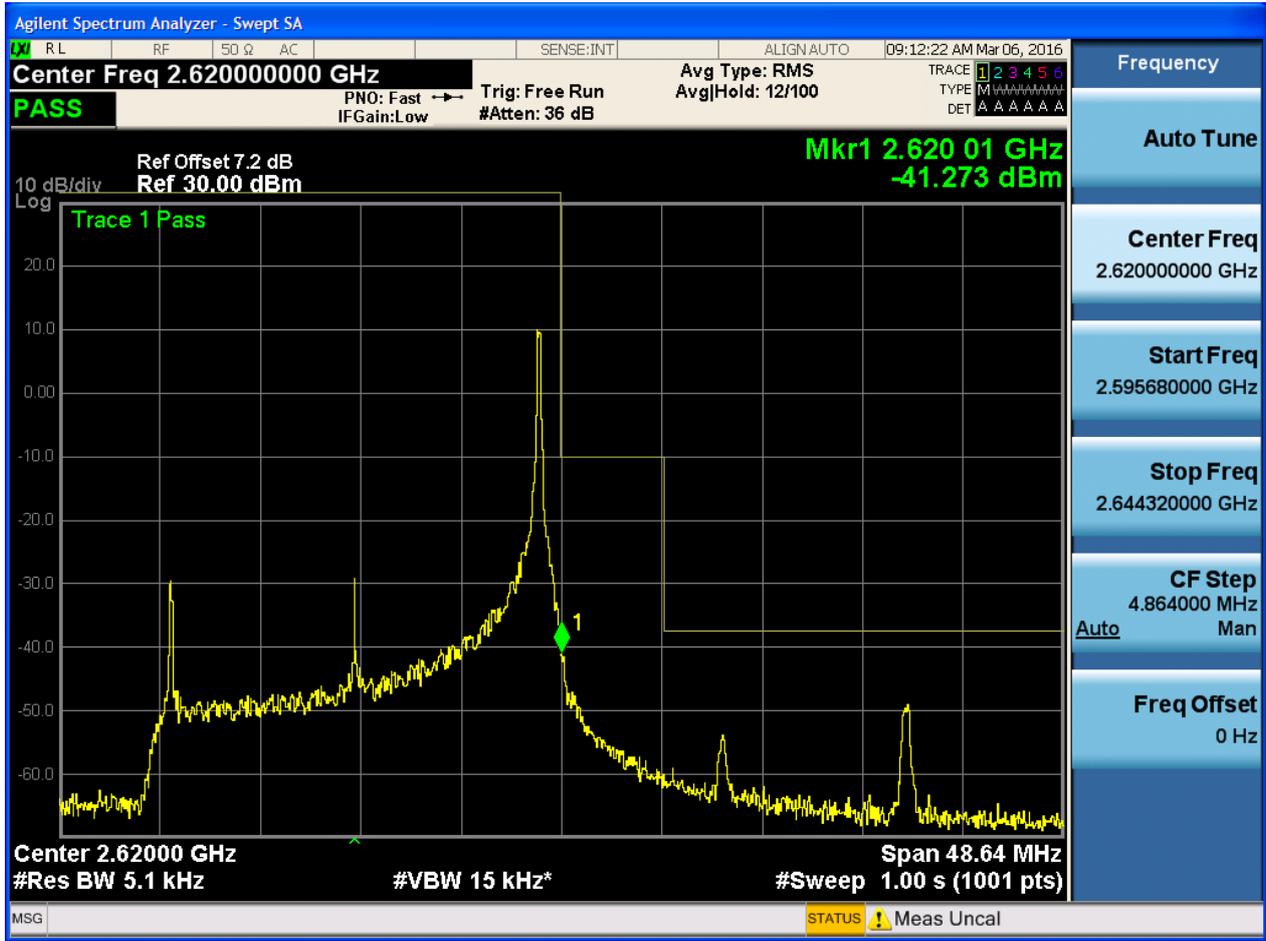
5.1.1.1.4.2.3 Test RB = RB50#25

5.1.1.1.4.2.4 Test RB = RB100#0

5.1.1.2 Test Mode = LTE/TM2

5.1.1.2.1 Test Bandwidth = 5

5.1.1.2.1.1 Test Channel = LCH

5.1.1.2.1.1.1 Test RB = RB1#0

5.1.1.2.1.1.2 Test RB = RB1#24

## 5.1.1.2.1.1.3 Test RB = RB12#6

## 5.1.1.2.1.1.4 Test RB = RB25#0

5.1.1.2.1.2 Test Channel = HCH

5.1.1.2.1.2.1 Test RB = RB1#0
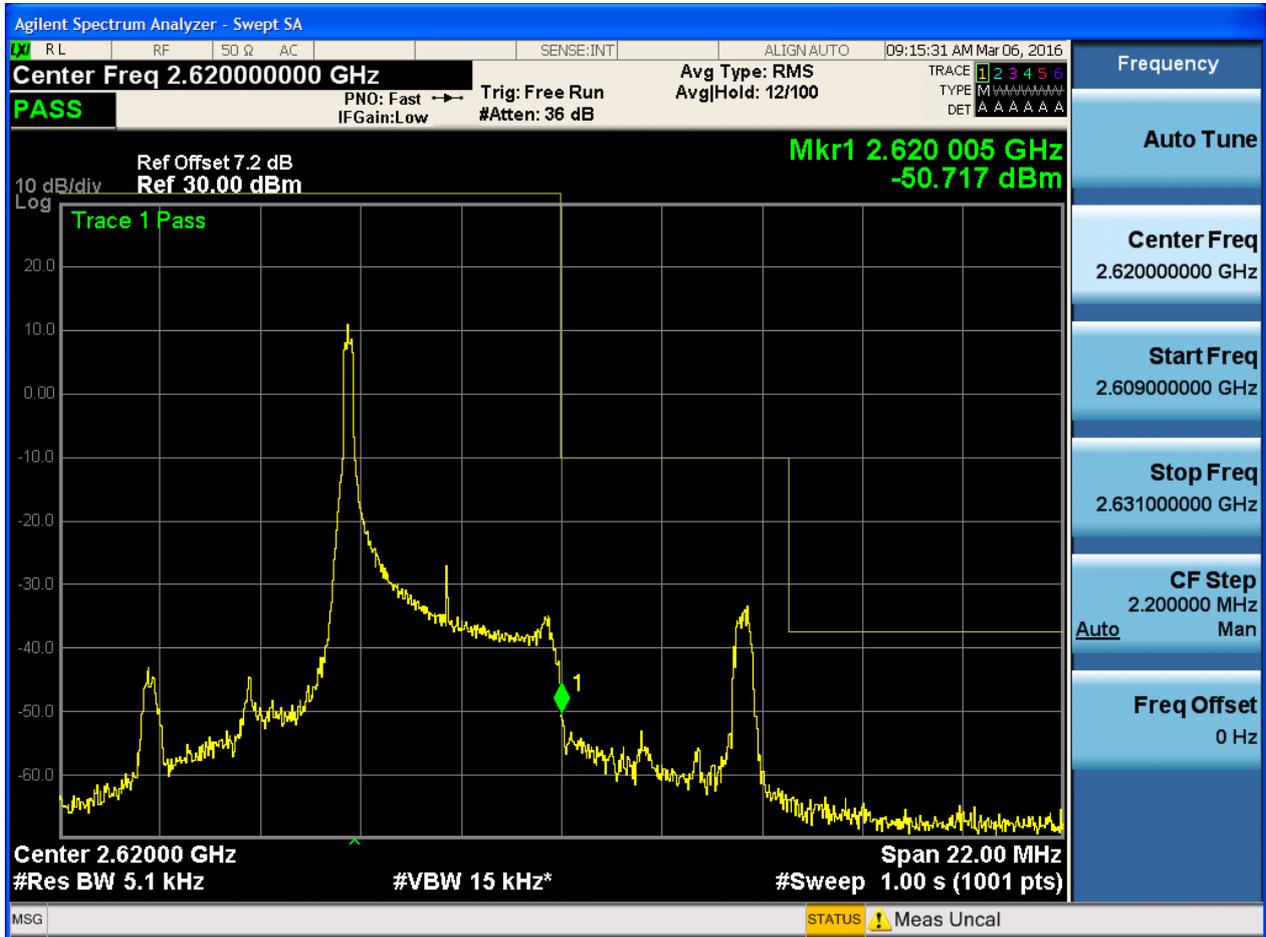
5.1.1.2.1.2.2 Test RB = RB1#24

5.1.1.2.1.2.3 Test RB = RB12#6
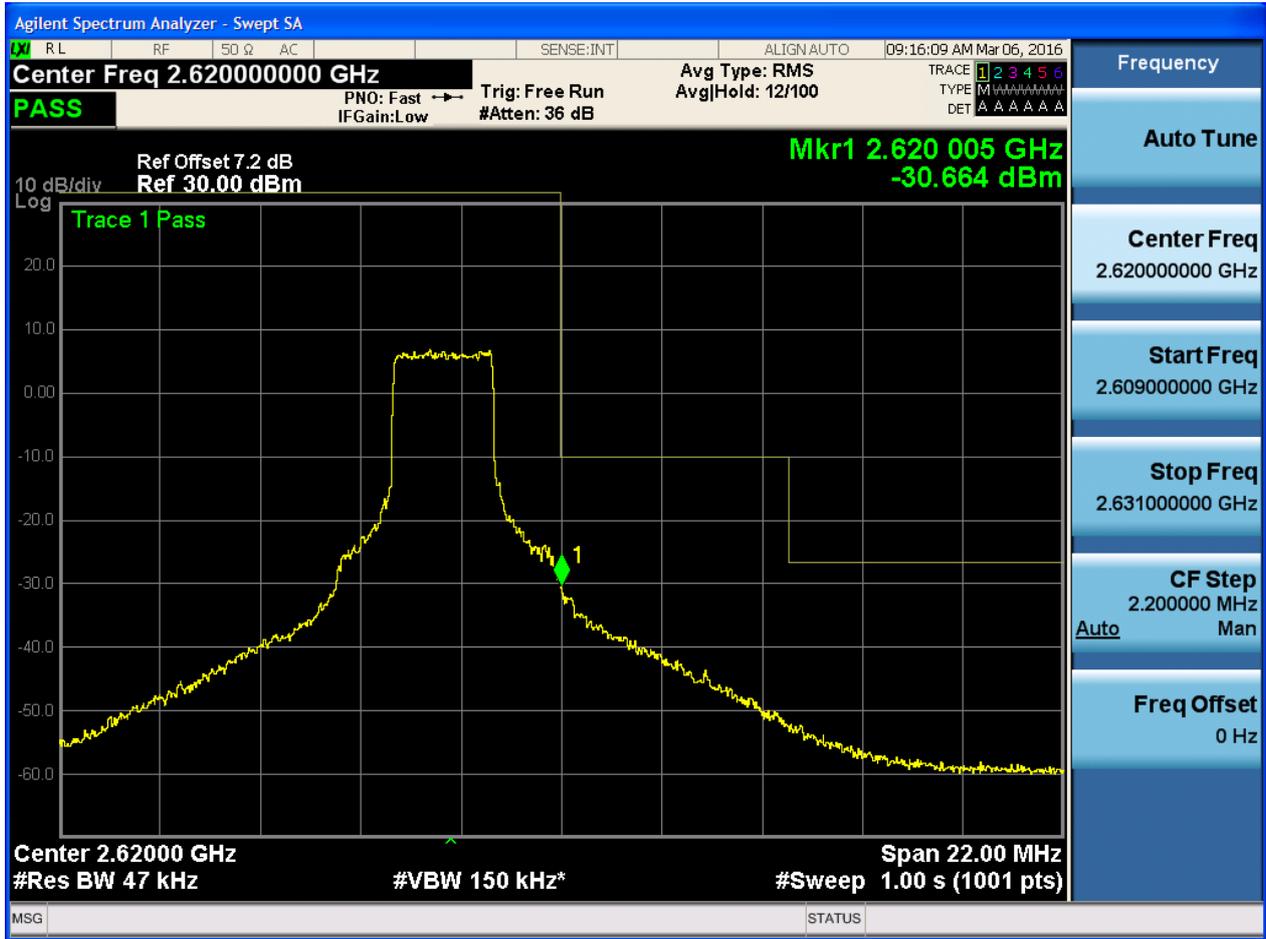
5.1.1.2.1.2.4 Test RB = RB25#0

5.1.1.2.2 Test Bandwidth = 10

5.1.1.2.2.1 Test Channel = LCH

5.1.1.2.2.1.1 Test RB = RB1#0

5.1.1.2.2.1.2 Test RB = RB1#49

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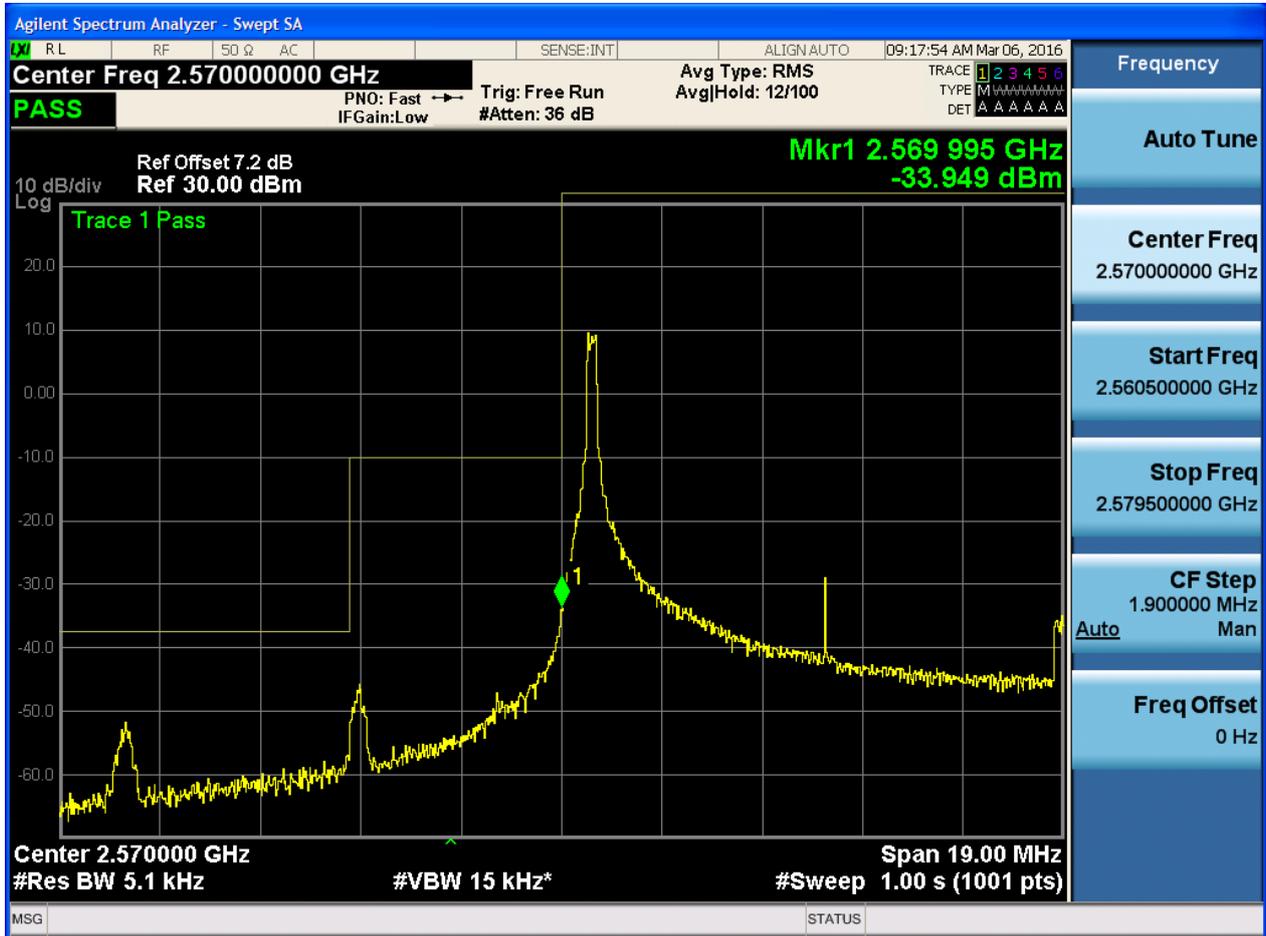
5.1.1.2.2.1.3 Test RB = RB25#13

5.1.1.2.2.1.4 Test RB = RB50#0
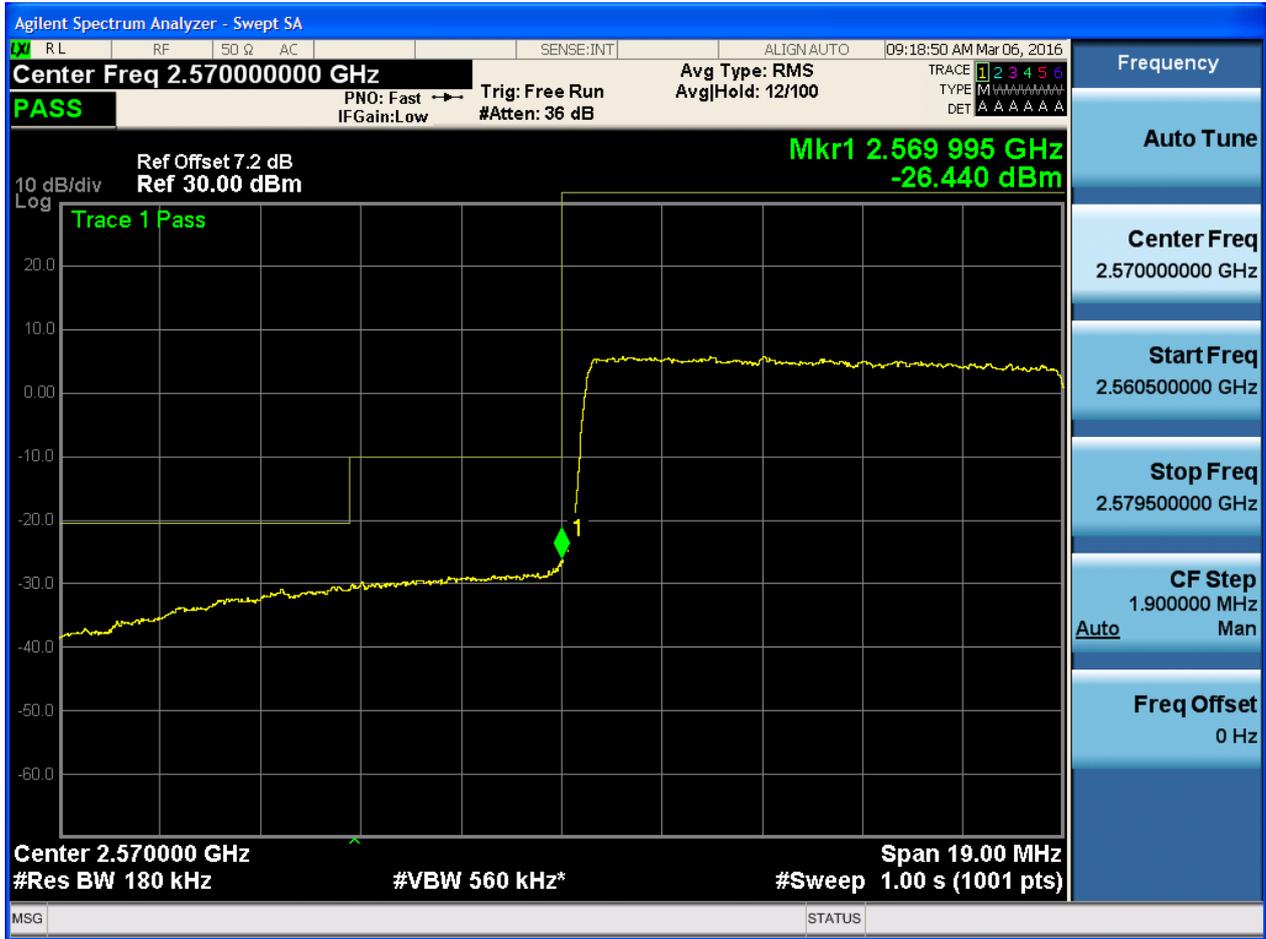
5.1.1.2.2.2 Test Channel = HCH

5.1.1.2.2.2.1 Test RB = RB1#0
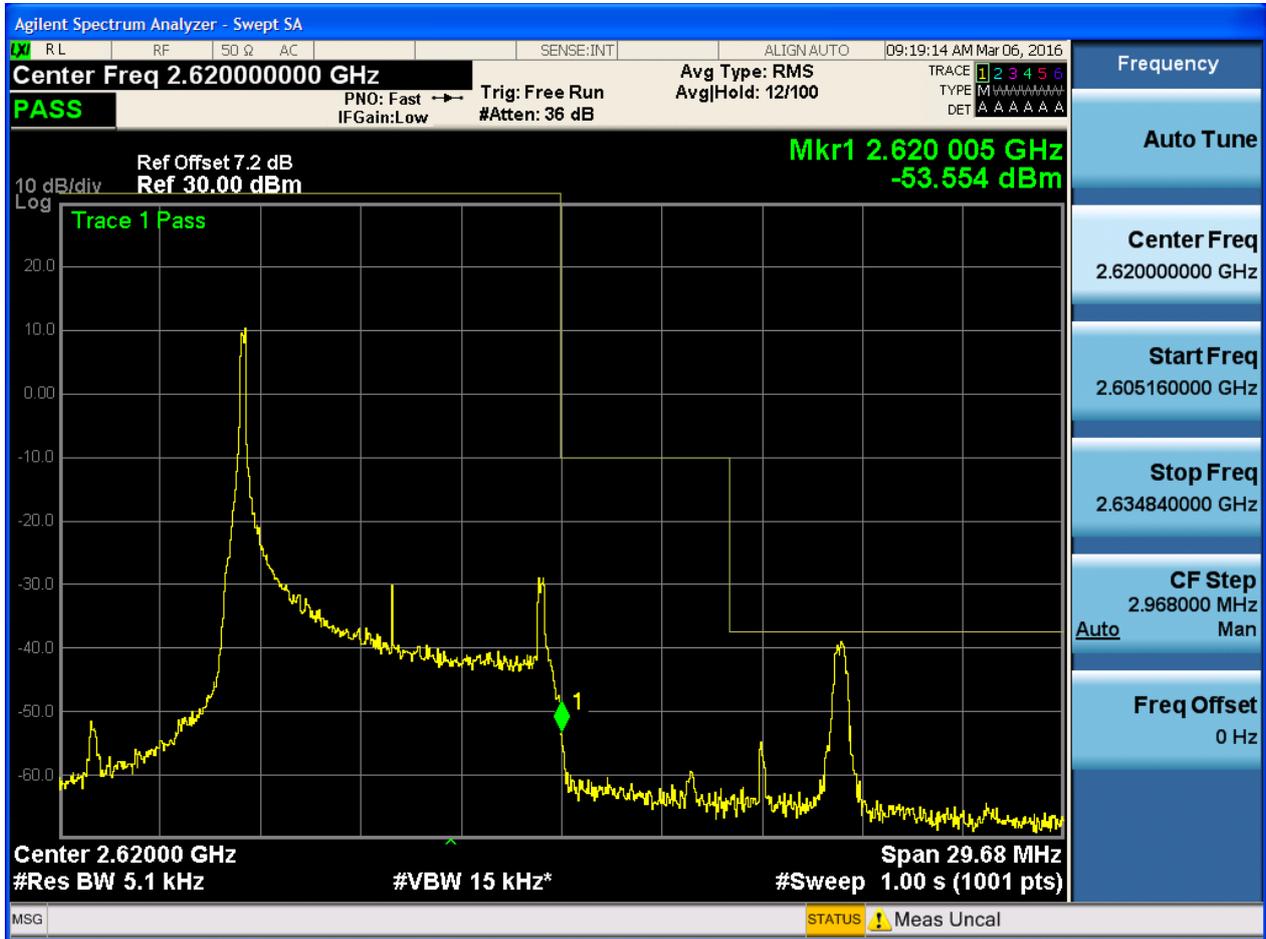
5.1.1.2.2.2.2 Test RB = RB1#49

5.1.1.2.2.2.3 Test RB = RB25#13

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5.1.1.2.2.2.4 Test RB = RB50#0

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5.1.1.2.3 Test Bandwidth = 15

5.1.1.2.3.1 Test Channel = LCH

5.1.1.2.3.1.1 Test RB = RB1#0

5.1.1.2.3.1.2 Test RB = RB1#74
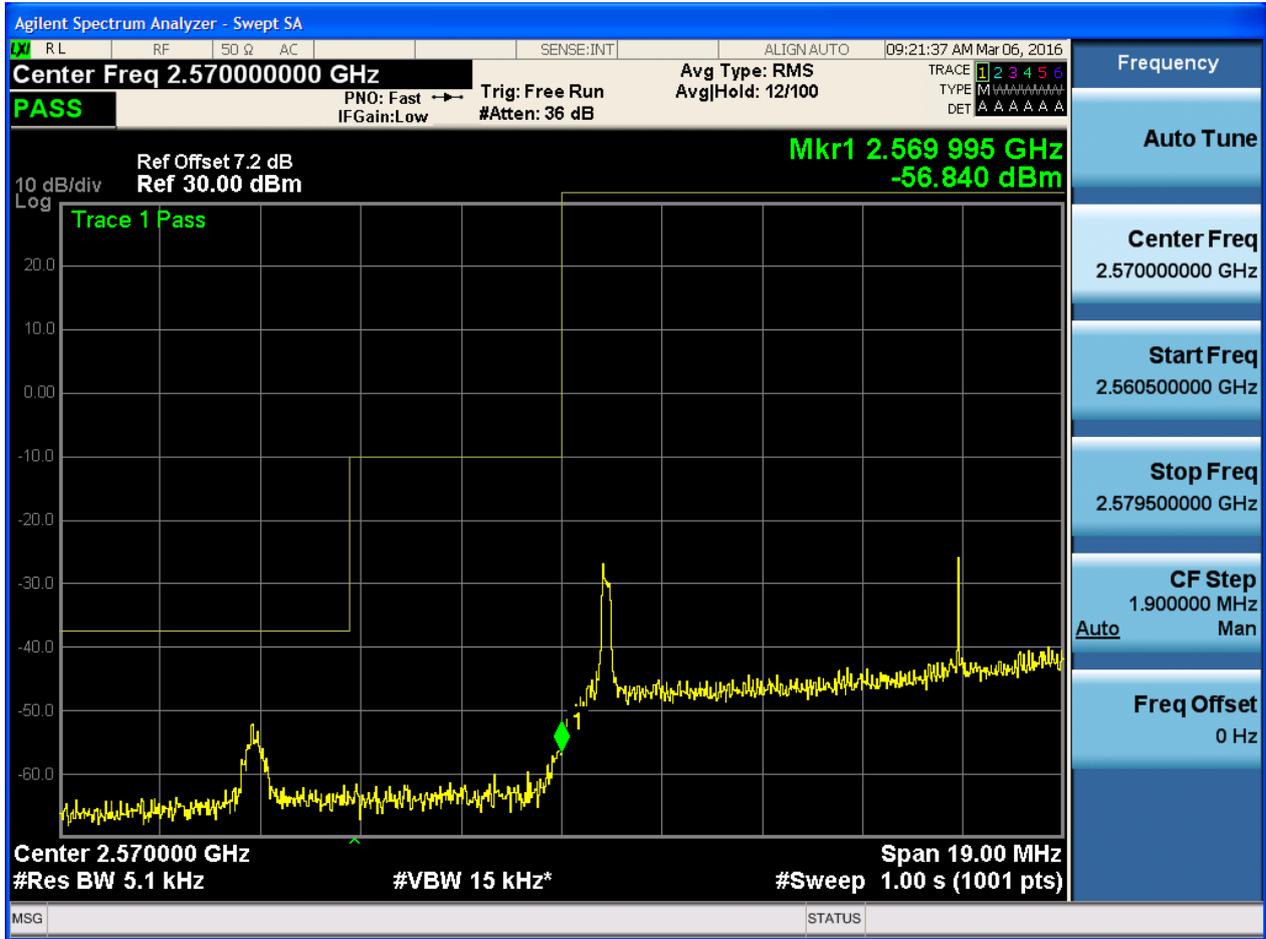
5.1.1.2.3.1.3 Test RB = RB36#18

5.1.1.2.3.1.4 Test RB = RB75#0

5.1.1.2.3.2 Test Channel = HCH

5.1.1.2.3.2.1 Test RB = RB1#0
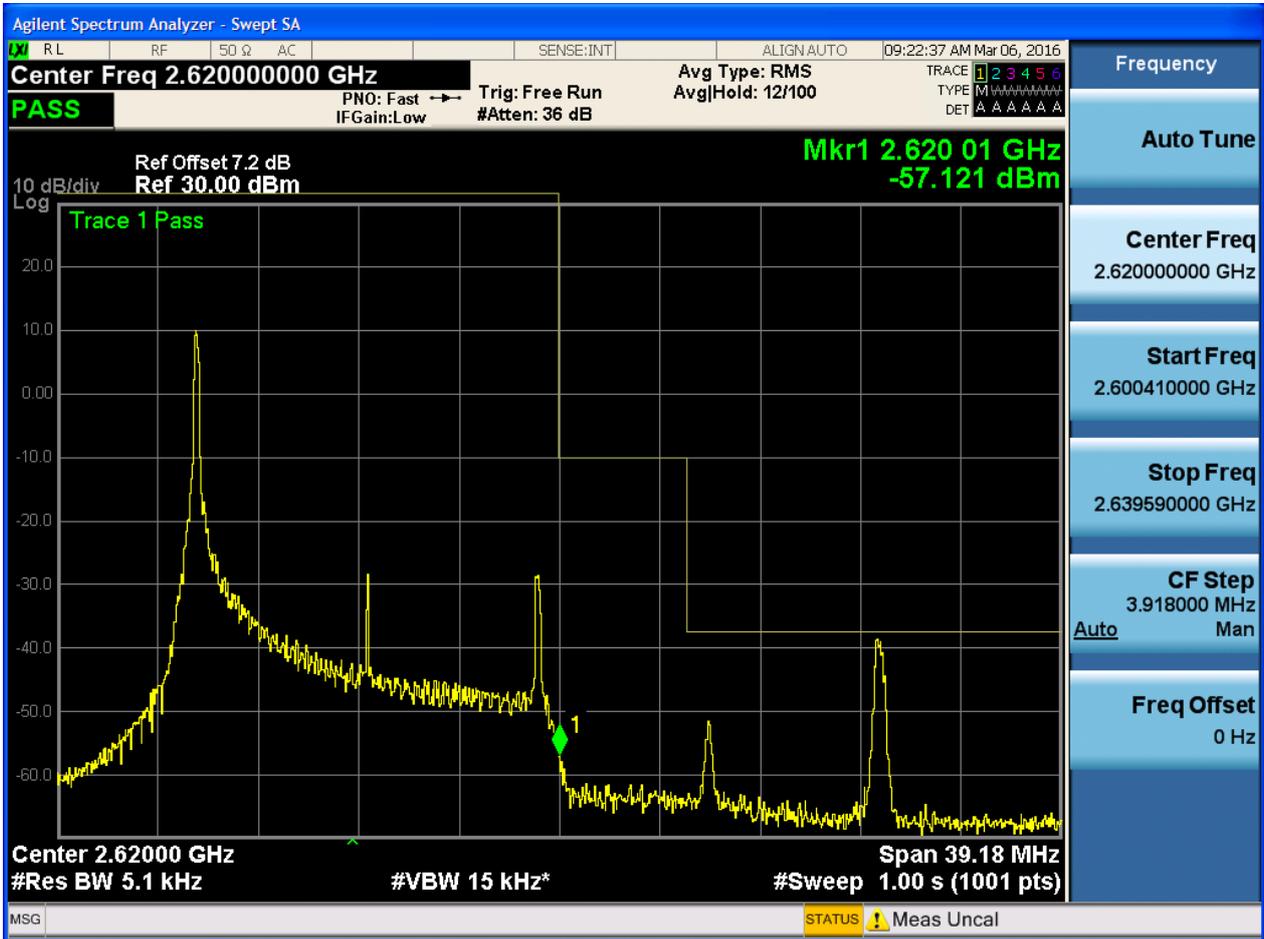
5.1.1.2.3.2.2 Test RB = RB1#74

5.1.1.2.3.2.3 Test RB = RB36#18

5.1.1.2.3.2.4 Test RB = RB75#0

5.1.1.2.4 Test Bandwidth = 20

5.1.1.2.4.1 Test Channel = LCH

5.1.1.2.4.1.1 Test RB = RB1#0
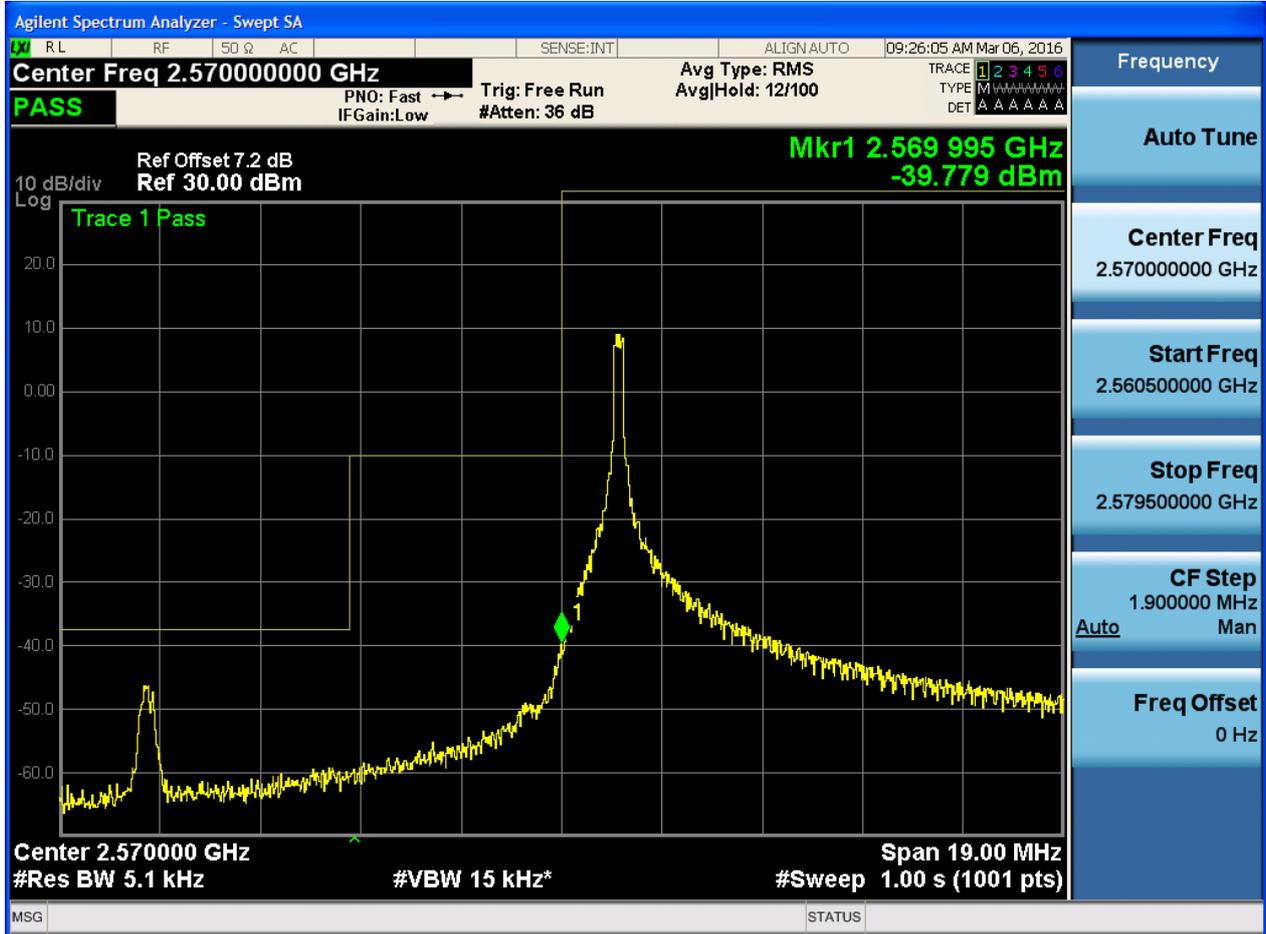
5.1.1.2.4.1.2 Test RB = RB1#99
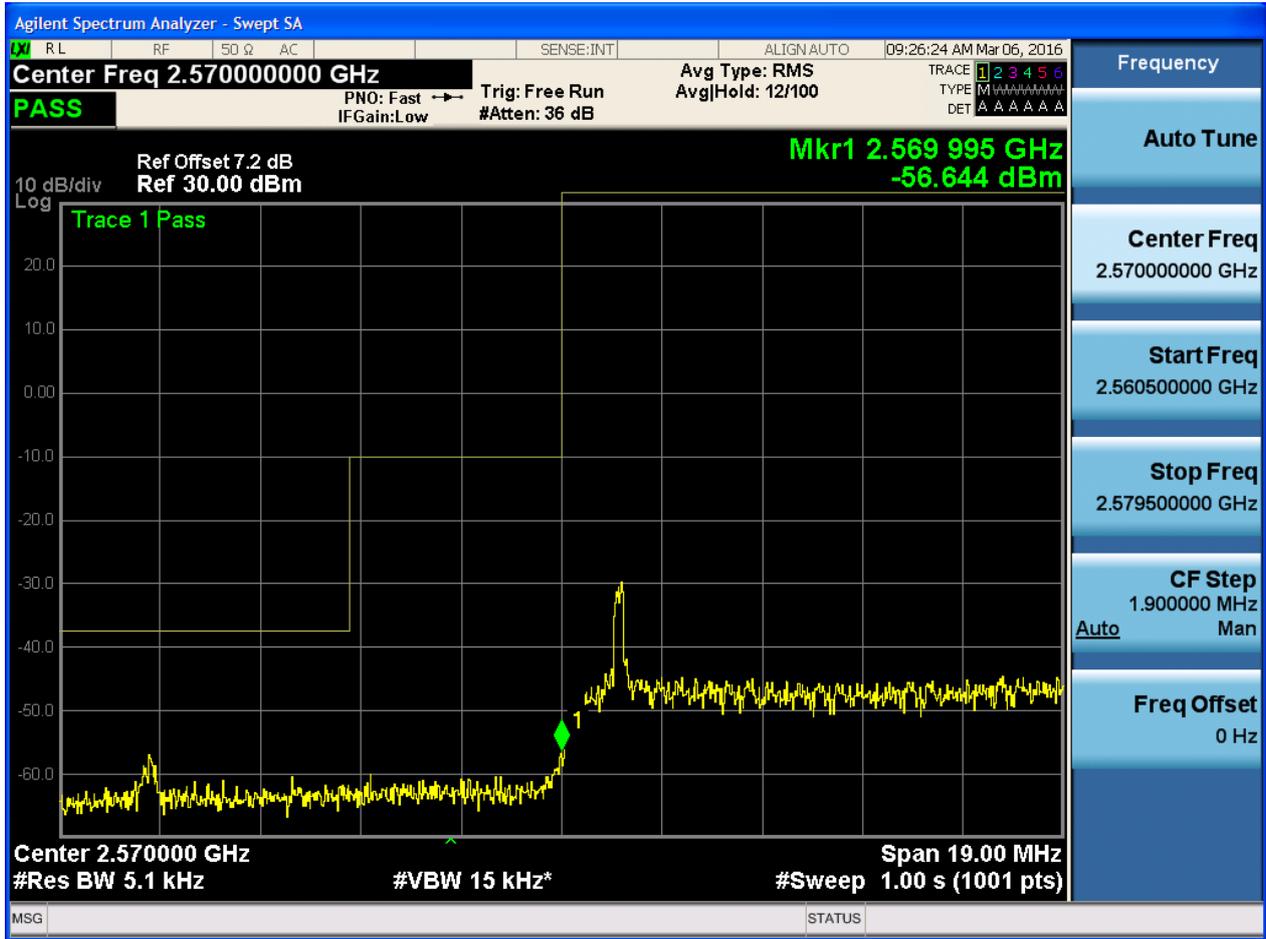
5.1.1.2.4.1.3 Test RB = RB50#25

5.1.1.2.4.1.4 Test RB = RB100#0

5.1.1.2.4.2 Test Channel = HCH

5.1.1.2.4.2.1 Test RB = RB1#0
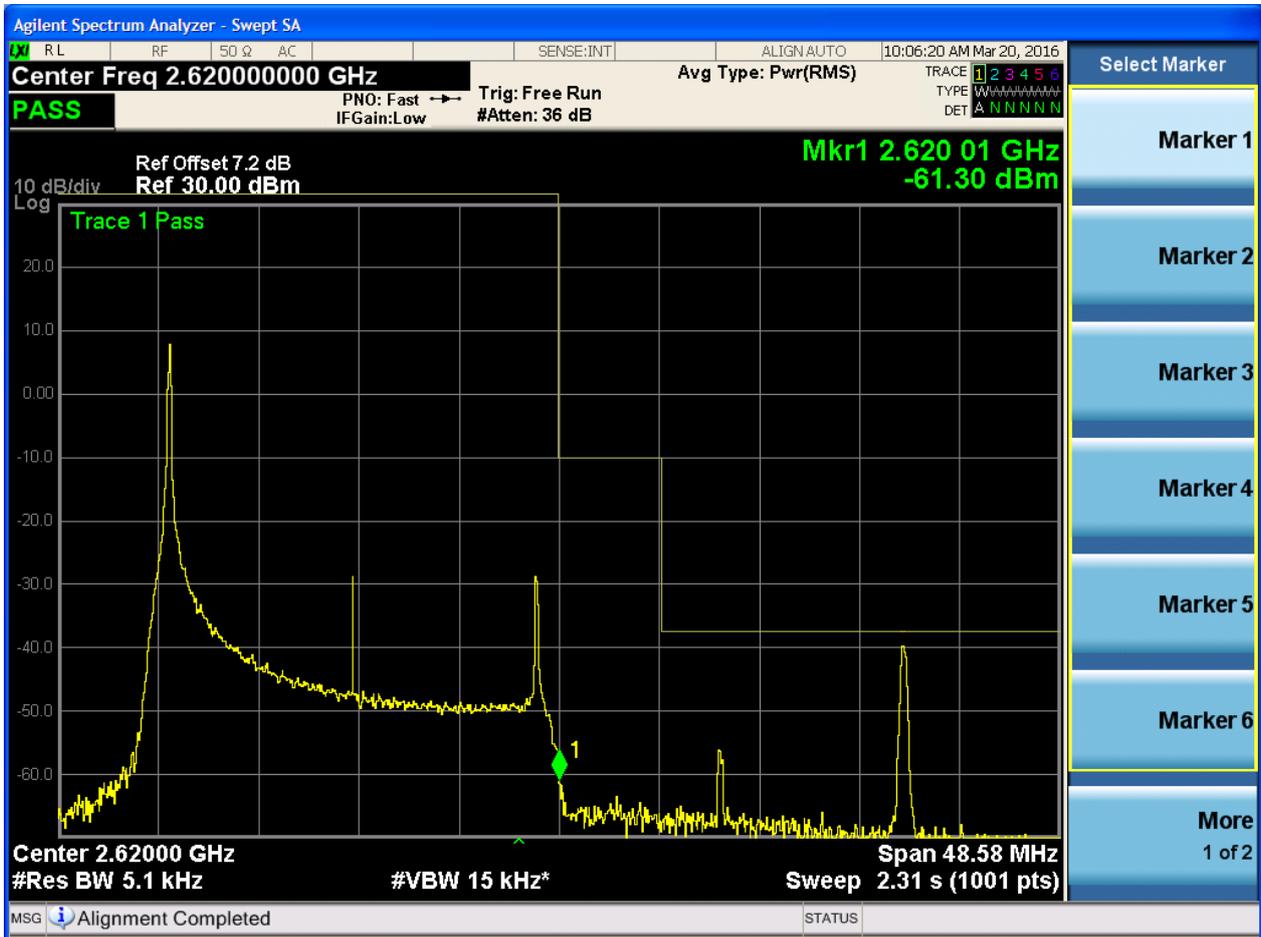
5.1.1.2.4.2.2 Test RB = RB1#99
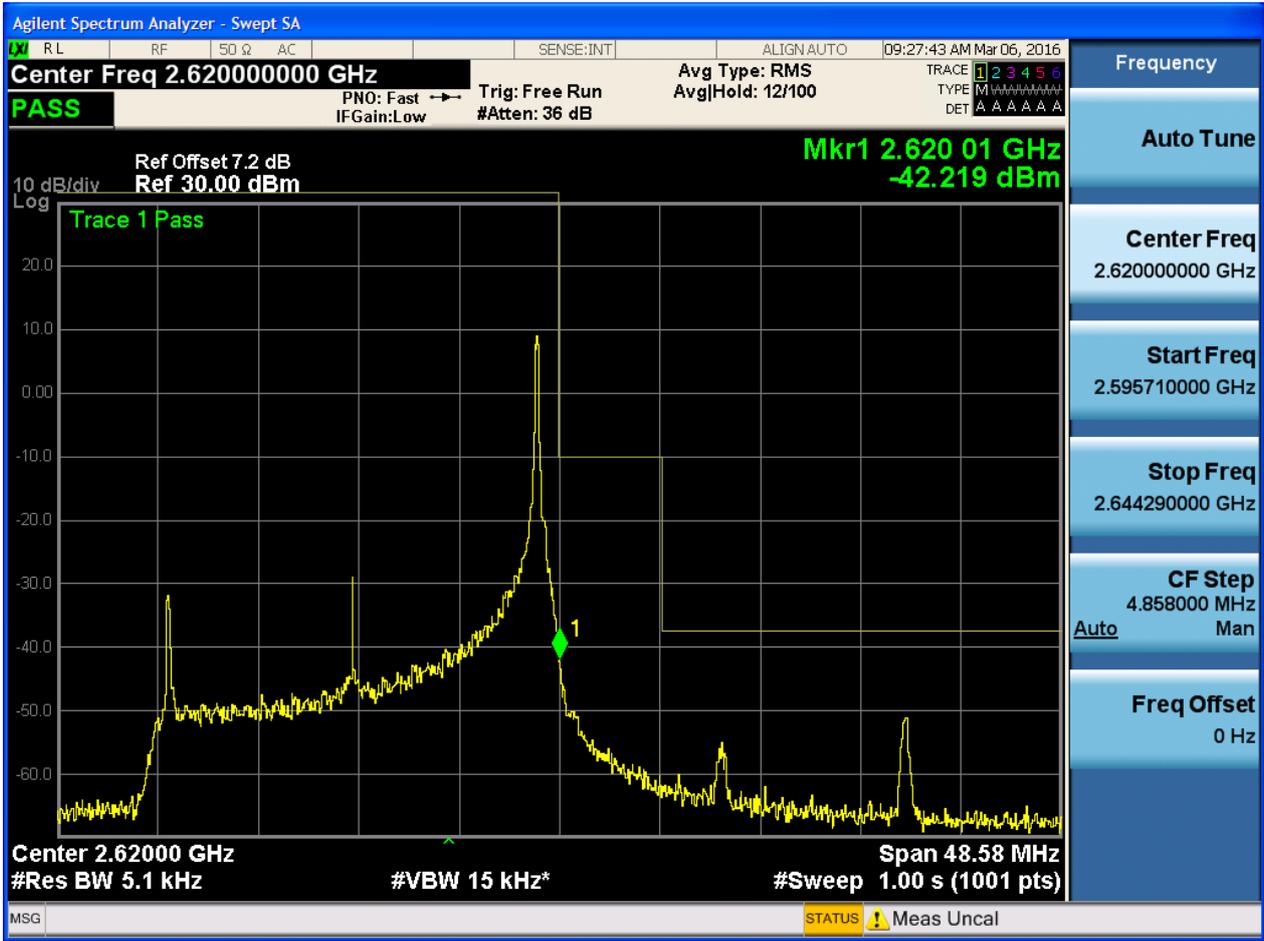
5.1.1.2.4.2.3 Test RB = RB50#25
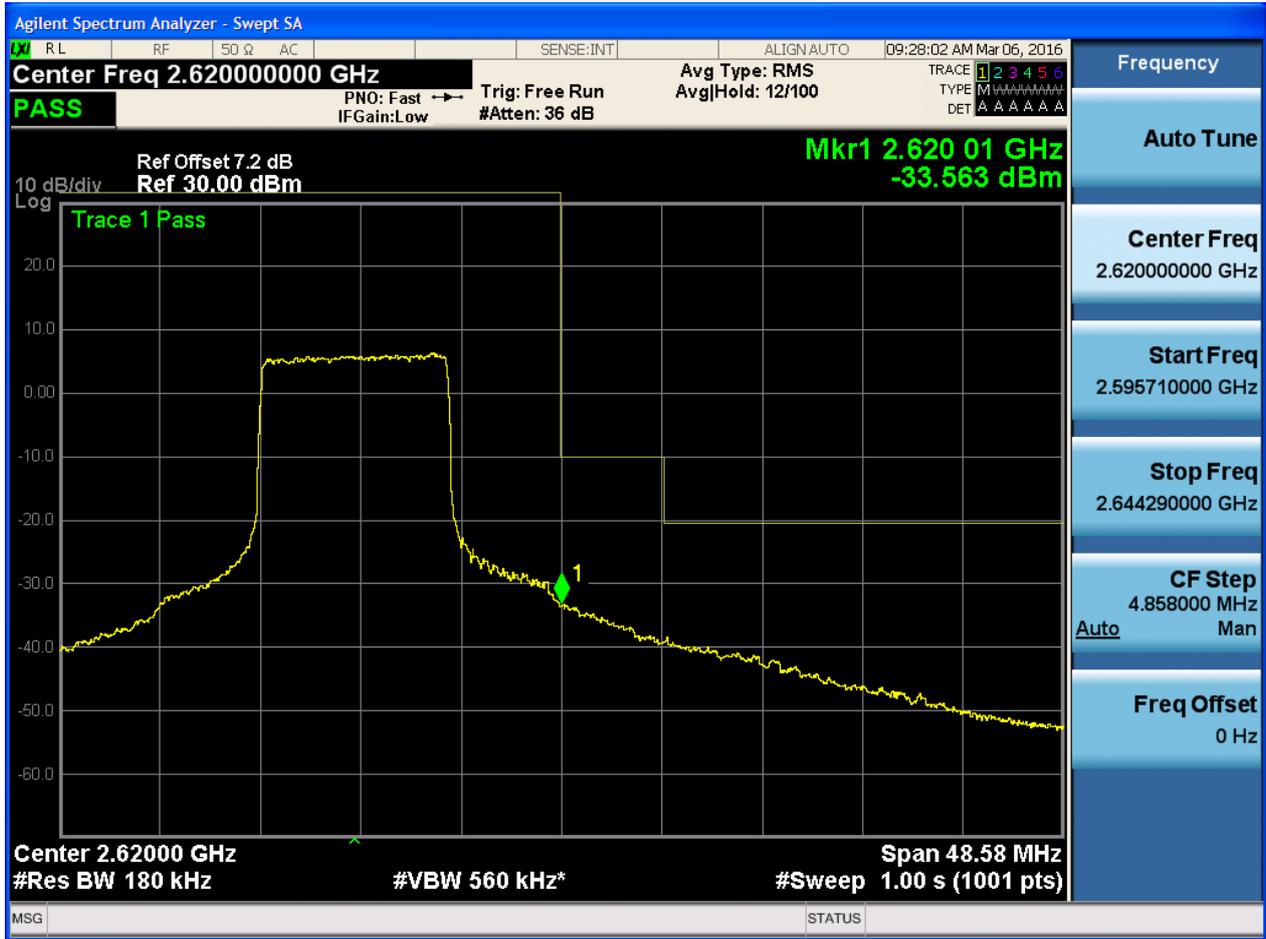
5.1.1.2.4.2.4 Test RB = RB100#0

6Appendix_F: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of < RBW/2 so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = k * (Span / RBW)" with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Part I - Test Plots

6.1 For LTE

6.1.1 Test Band = BAND38

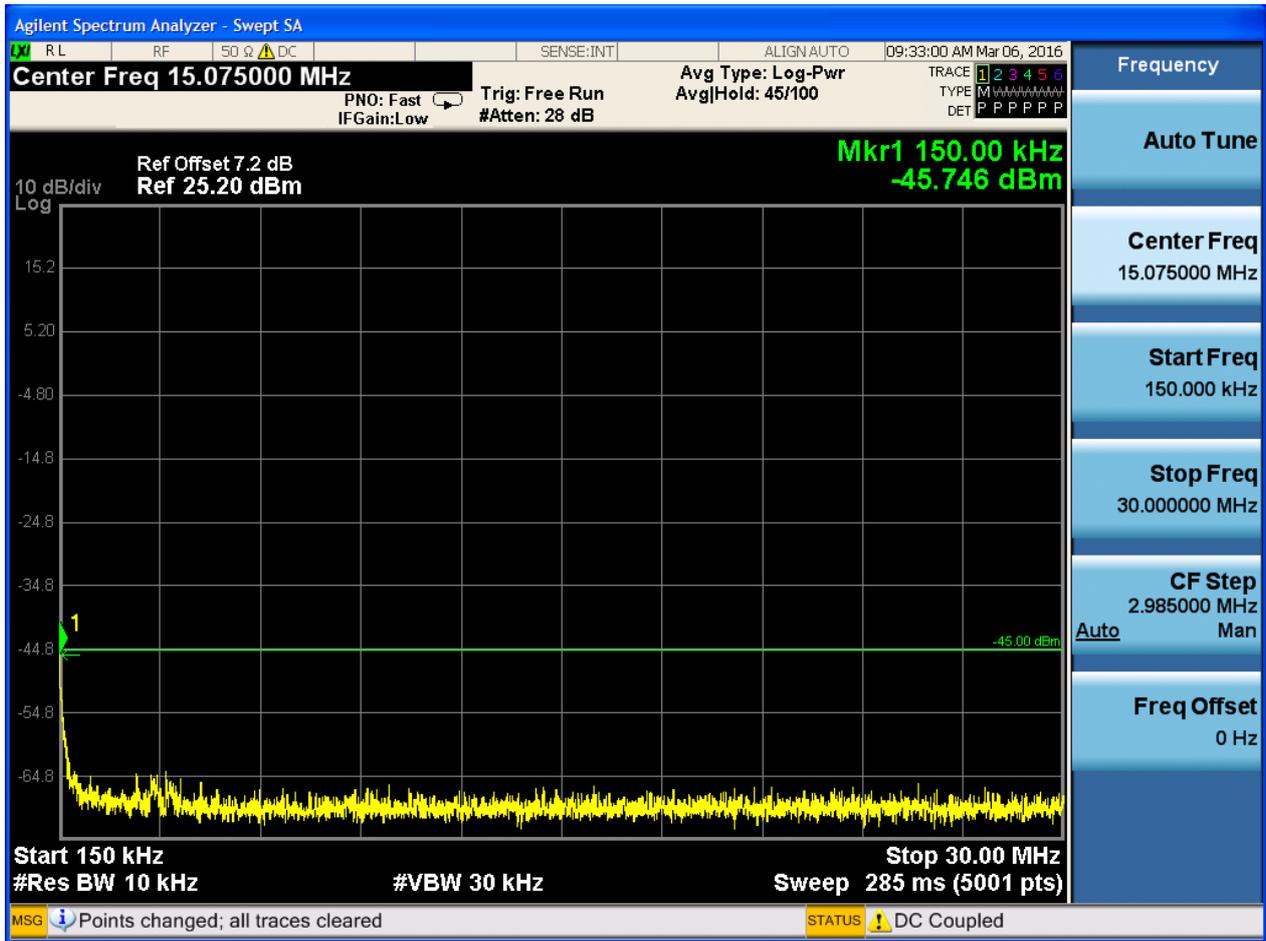**6.1.1.1 Test Mode = LTE/TM1**

6.1.1.1.1 Test Bandwidth = 5

6.1.1.1.1.1 Test Channel = LCH

6.1.1.1.1.1.1 Test RB = RB1#0

**Agilent Spectrum Analyzer - Swept SA**

LXI R L   RF   50 Ω ⚠ DC   SENSE:INT   ALIGN AUTO   09:31:48 AM Mar 06, 2016

Center Freq 79.500 kHz

PNO: Wide ↻   Trig: Free Run   Avg Type: Log-Pwr   TRACE 1 2 3 4 5 6
IFGain:Low   #Atten: 16 dB   Avg|Hold: 90/100   TYPE M WWWWWW
                                                        DET P P P P P P

Ref Offset 7.2 dB   **Mkr1 9.282 kHz**
10 dB/div **Ref 13.20 dBm**   **-57.482 dBm**
Log

3.20

-6.80

-16.8

-26.8

-36.8

-46.8
                                                        -55.00 dBm
1
-56.8
Auto ⬥

-66.8

-76.8

Start 9.00 kHz   **Stop 150.00 kHz**
#Res BW 1.0 kHz   **#VBW 3.0 kHz**   **Sweep 135 ms (1001 pts)**

MSG ⚠ Data out of range;The value 15 was clipped to the maximum value of 13.2.   STATUS ⚠ DC Coupled

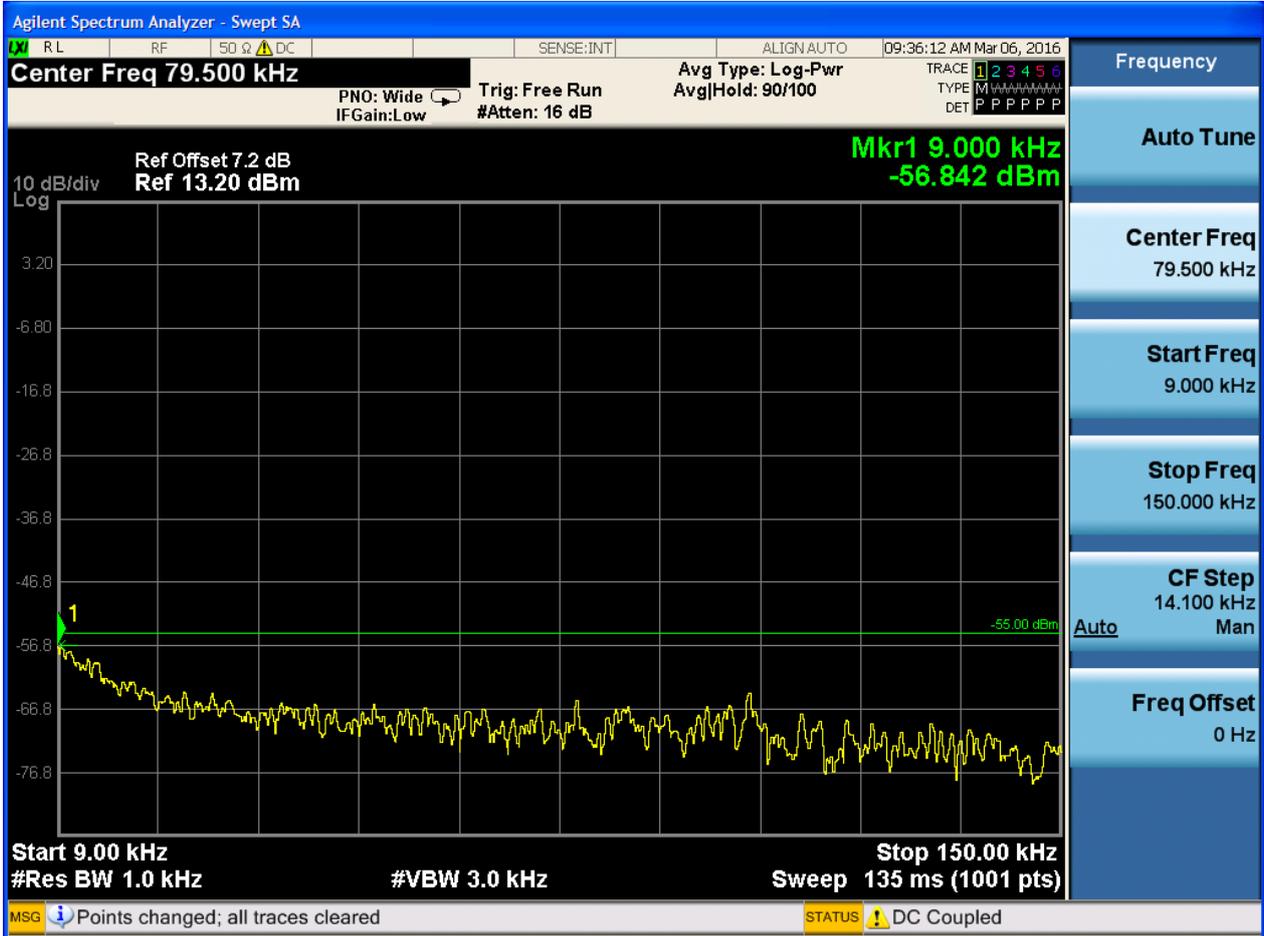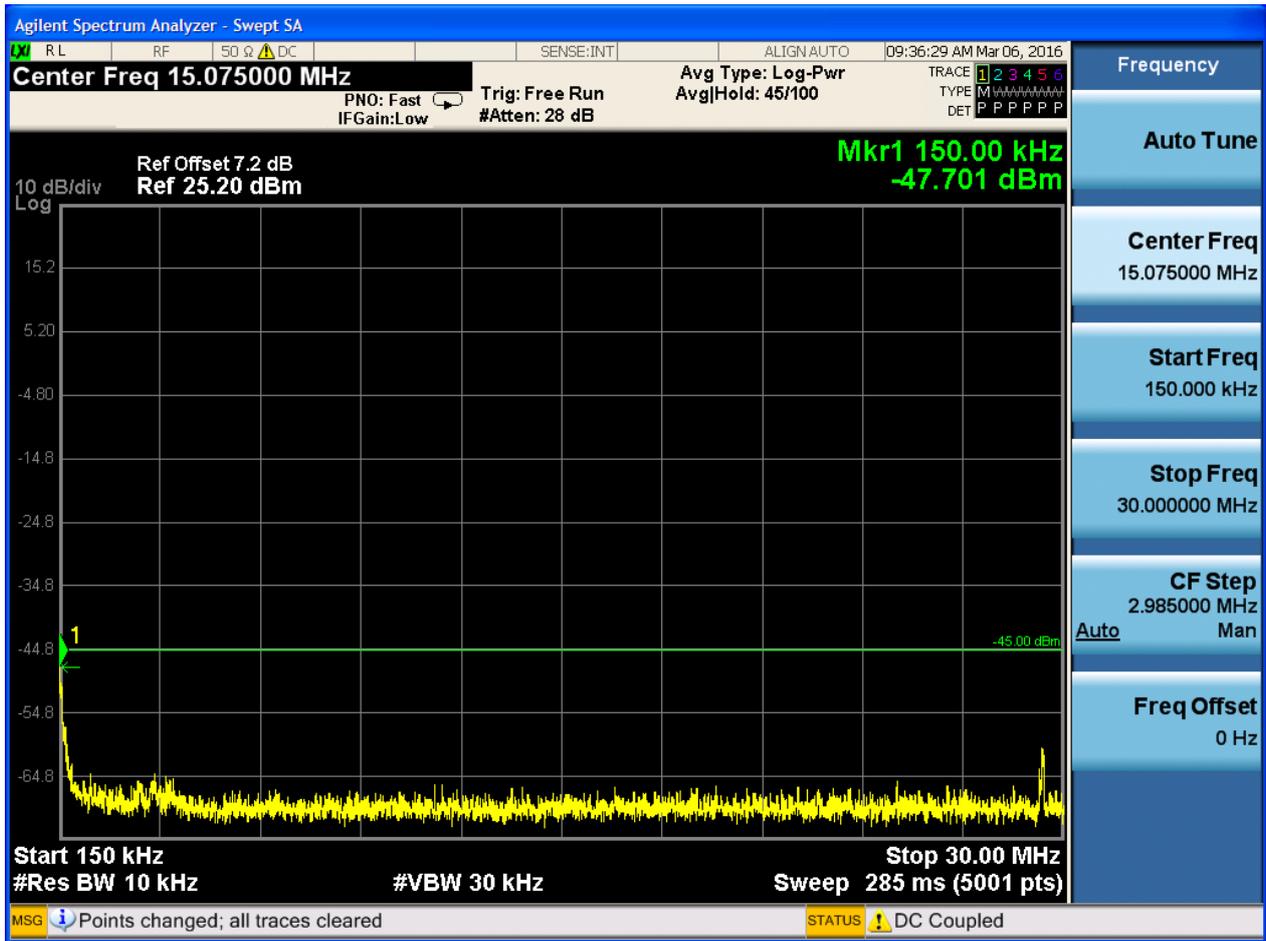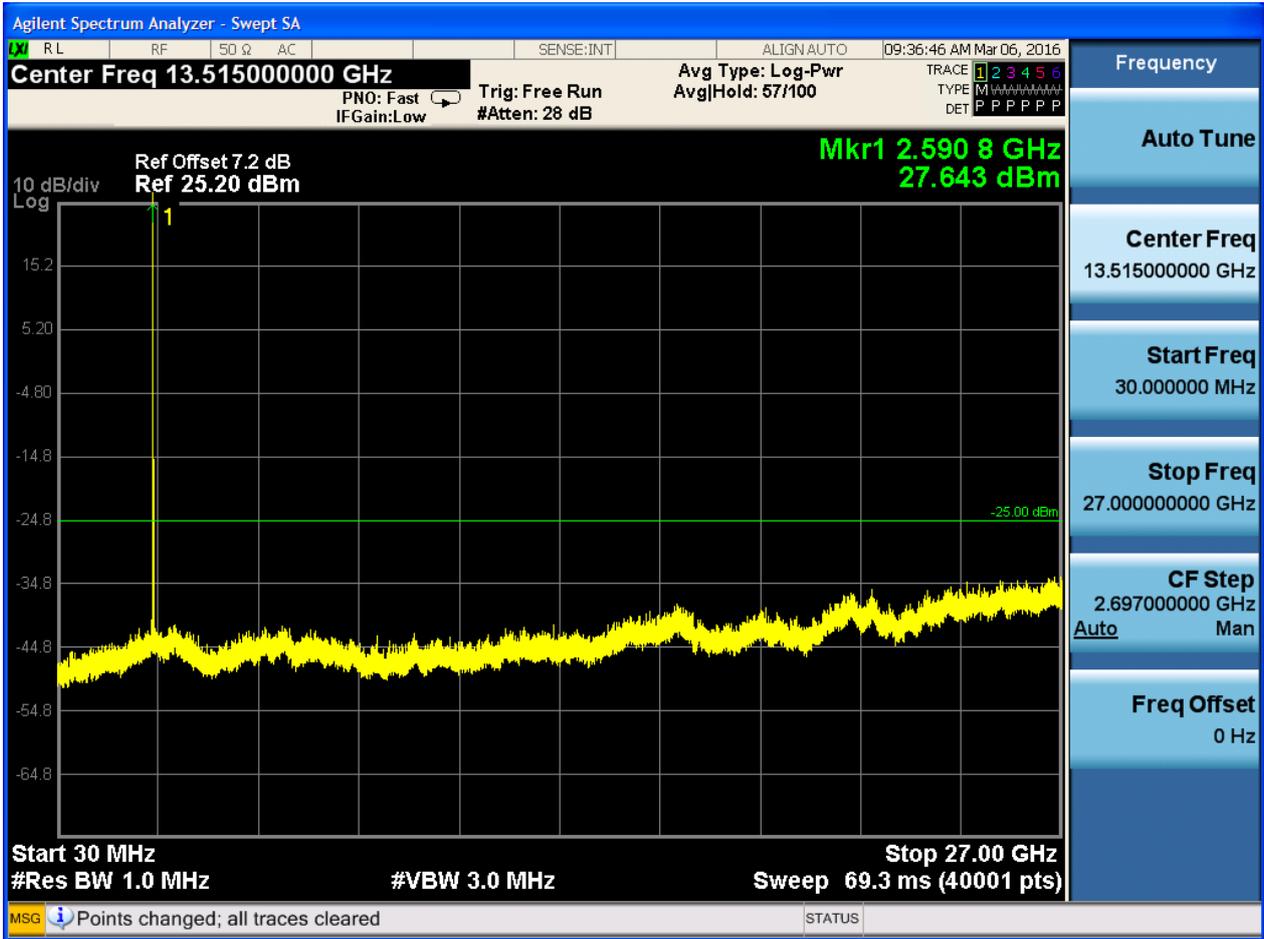| Frequency |
|---|
| **Auto Tune** |
| **Center Freq** 79.500 kHz |
| **Start Freq** 9.000 kHz |
| **Stop Freq** 150.000 kHz |
| **CF Step** 14.100 kHz Auto   Man |
| **Freq Offset** 0 Hz |

6.1.1.1.1.2 Test Channel = MCH

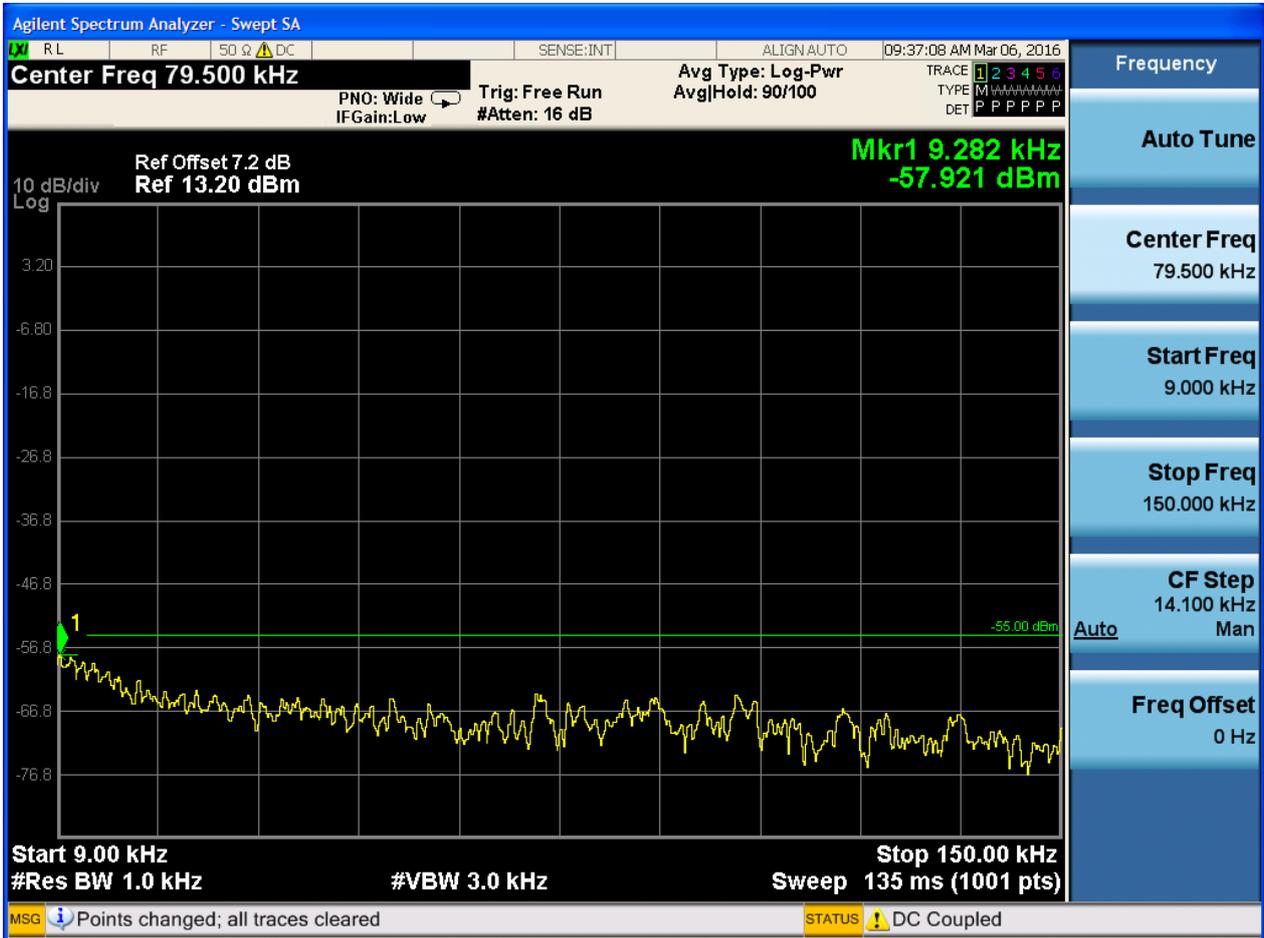## 6.1.1.1.1.2.1 Test RB = RB1#0
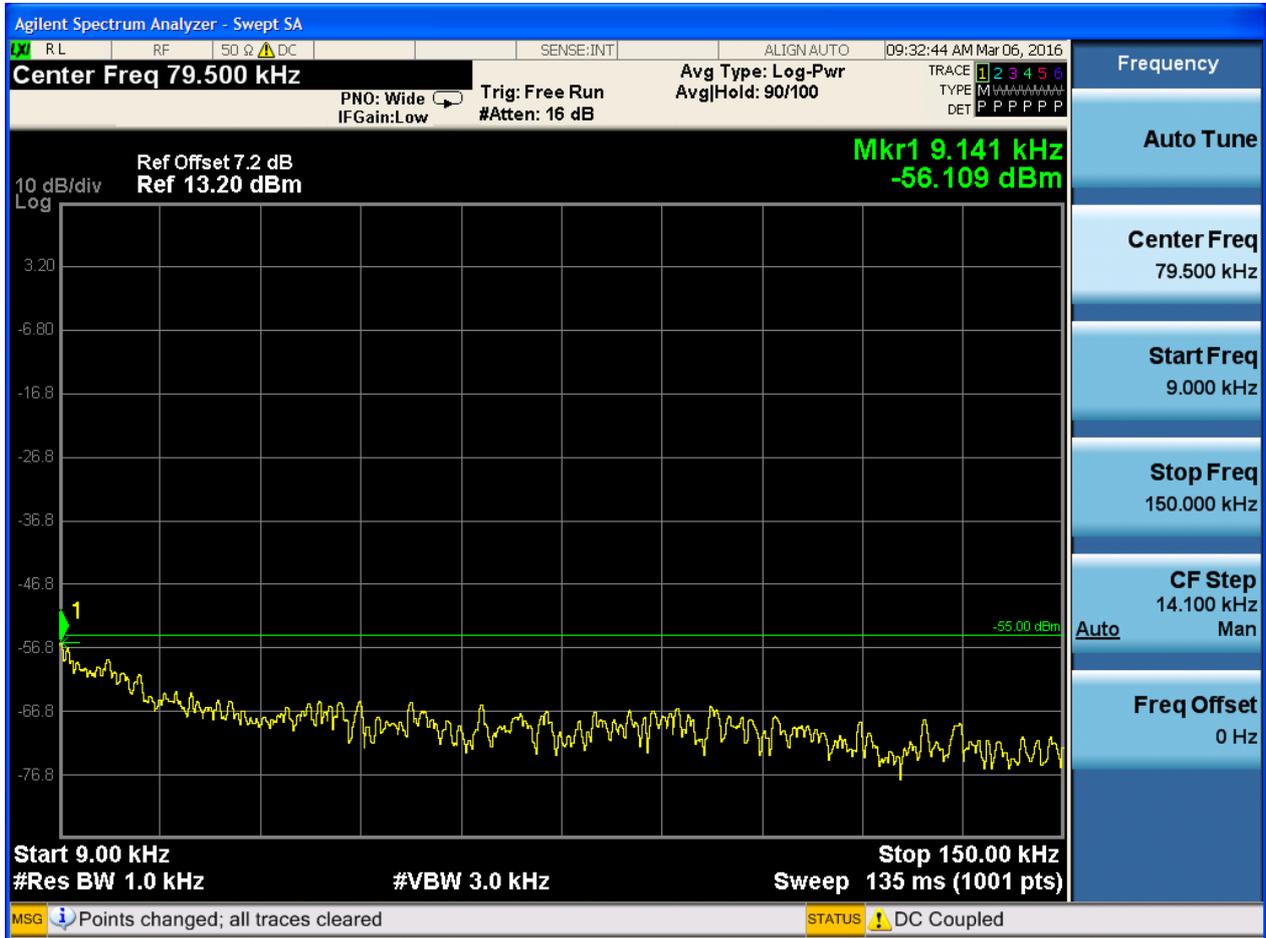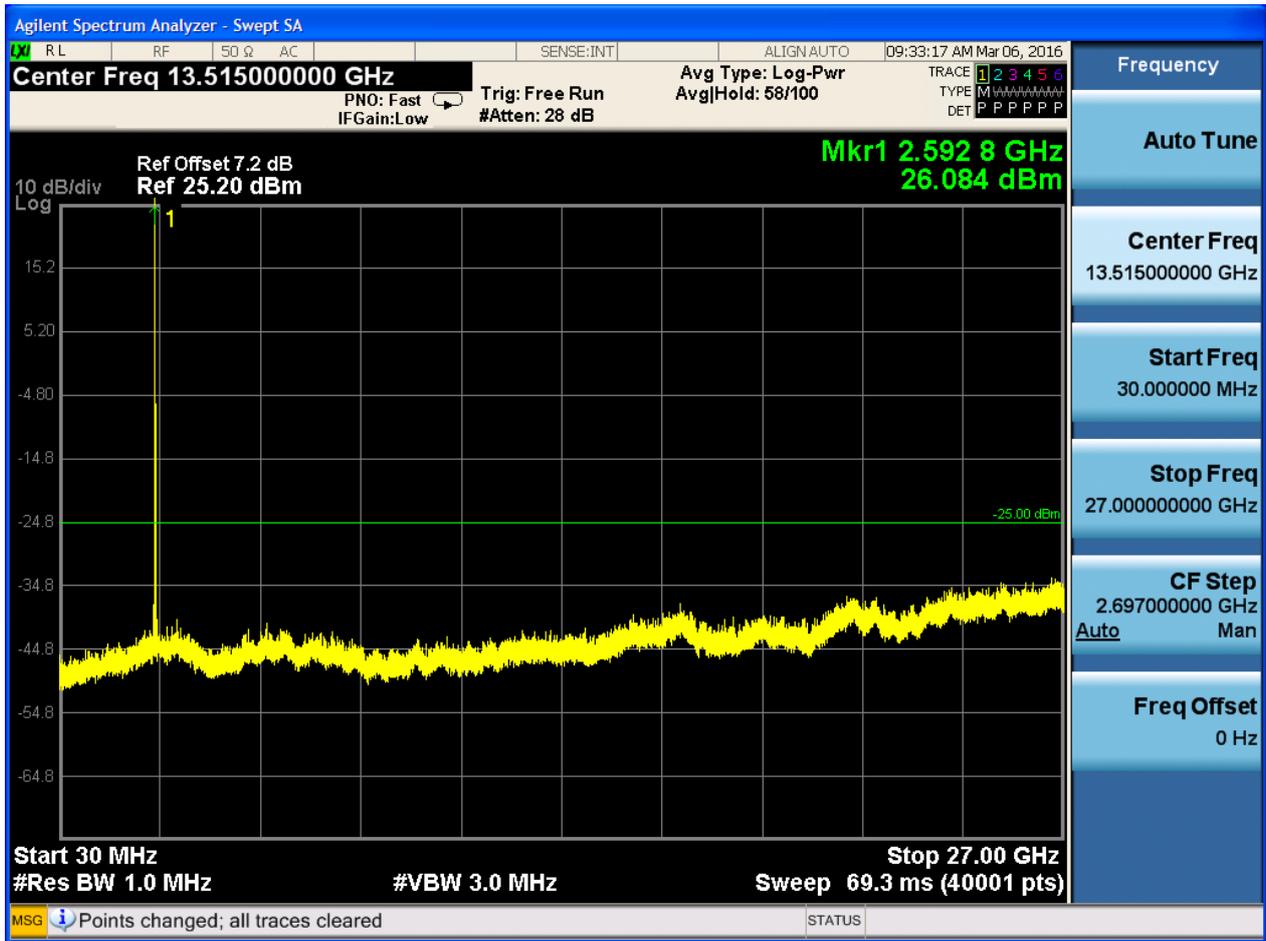
6.1.1.1.1.3 Test Channel = HCH

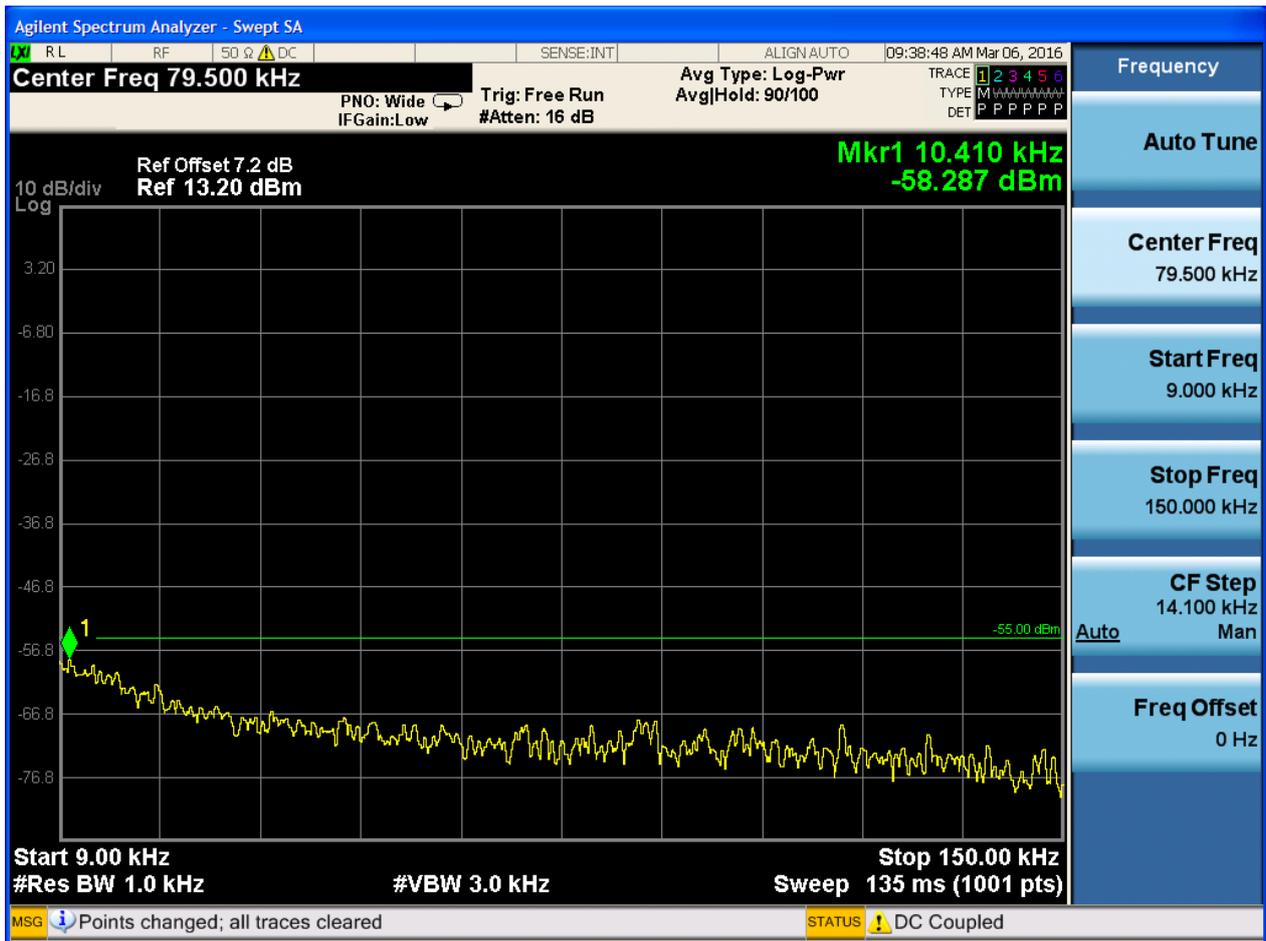### 6.1.1.1.1.3.1 Test RB = RB1#0
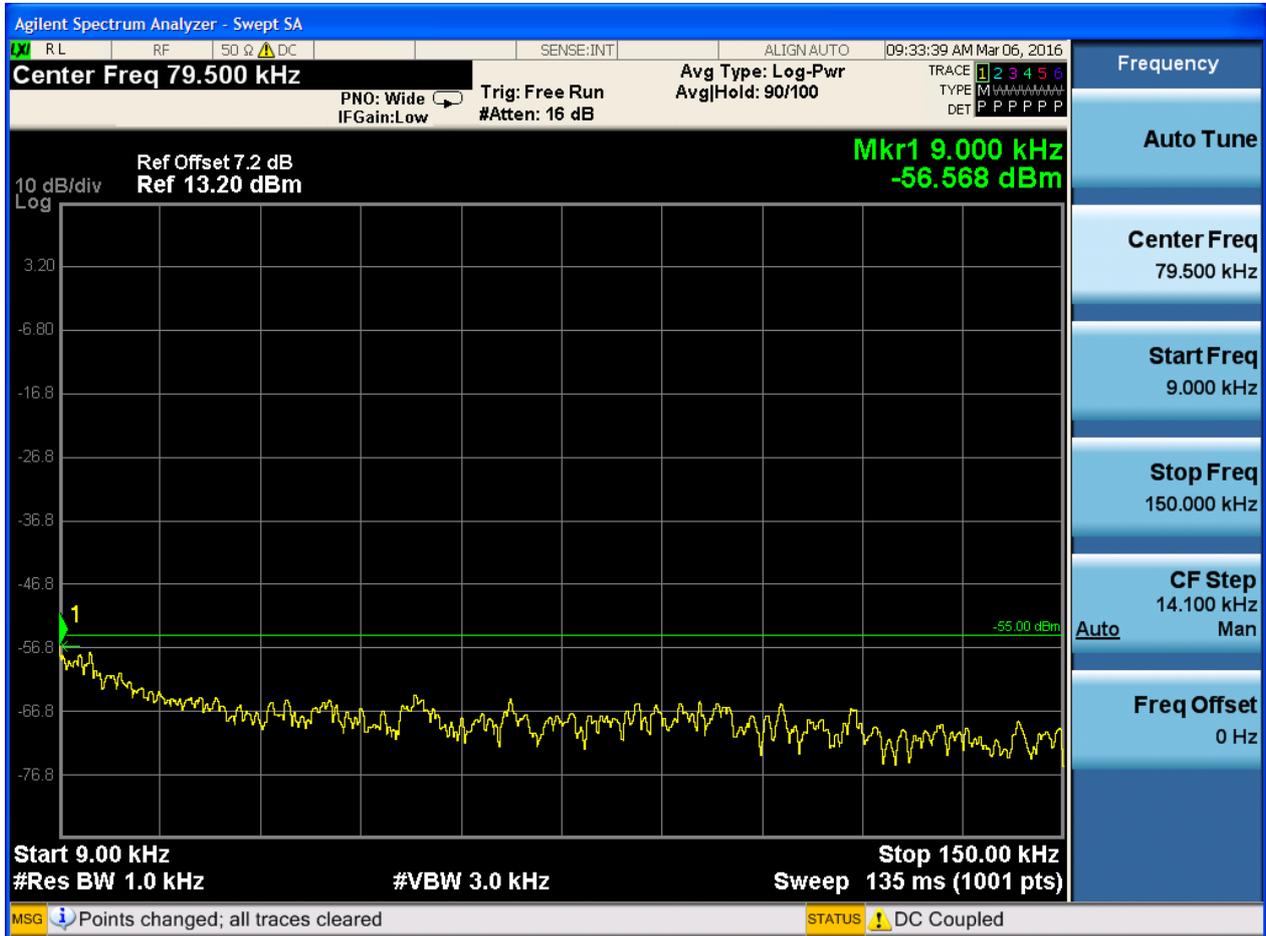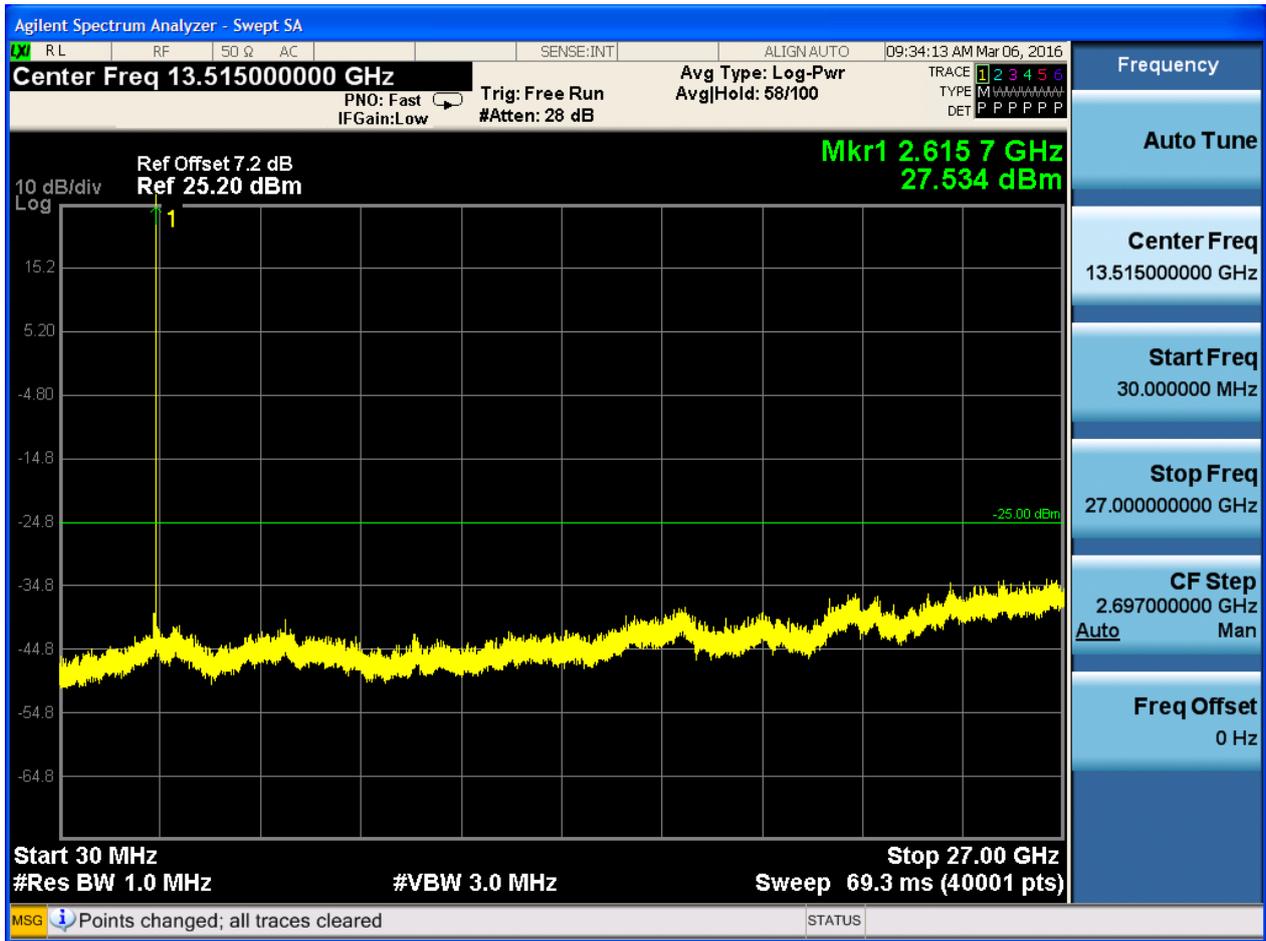
6.1.1.1.2 Test Bandwidth = 10

6.1.1.1.2.1 Test Channel = LCH

6.1.1.1.2.1.1 Test RB = RB1#0
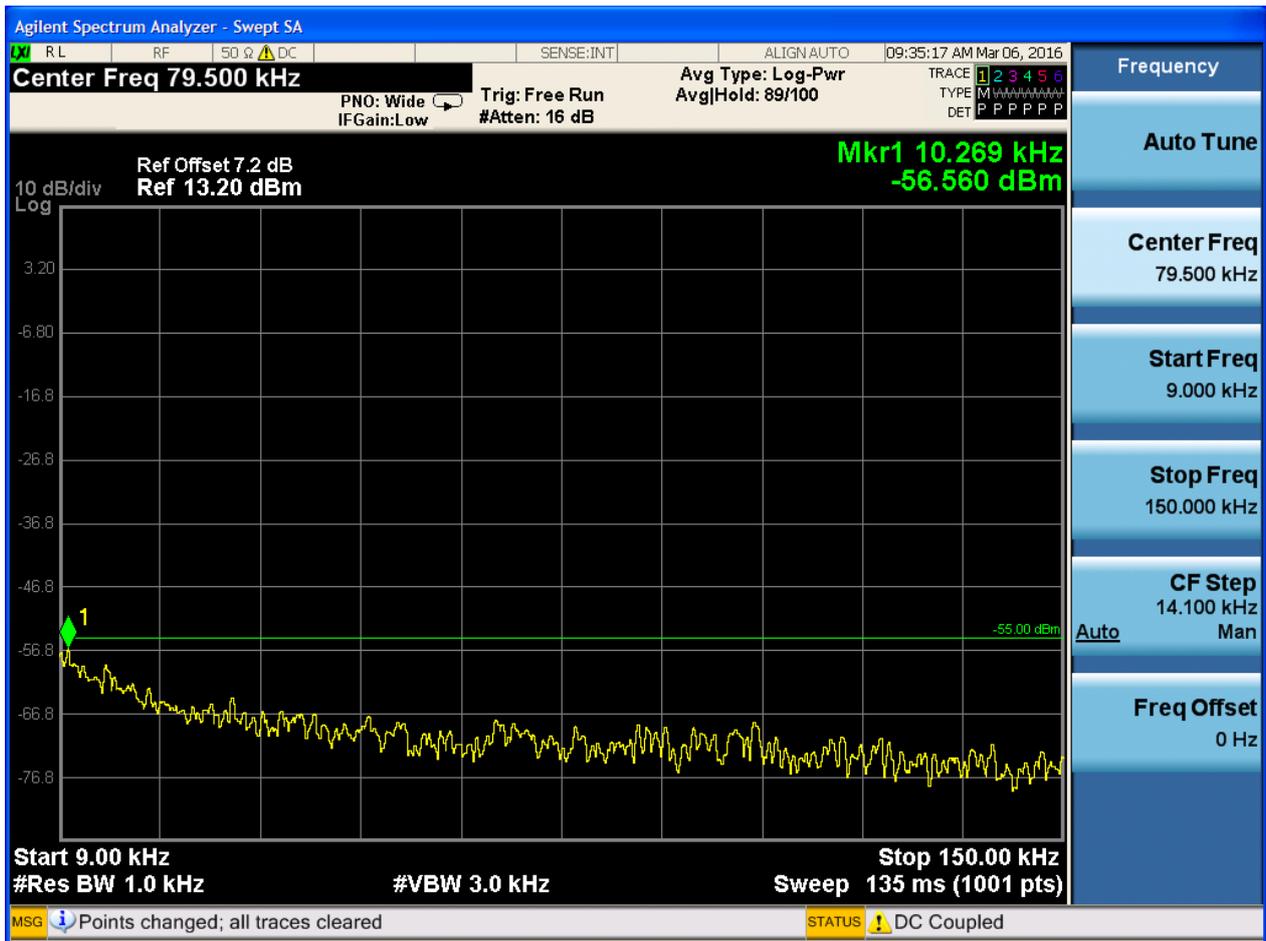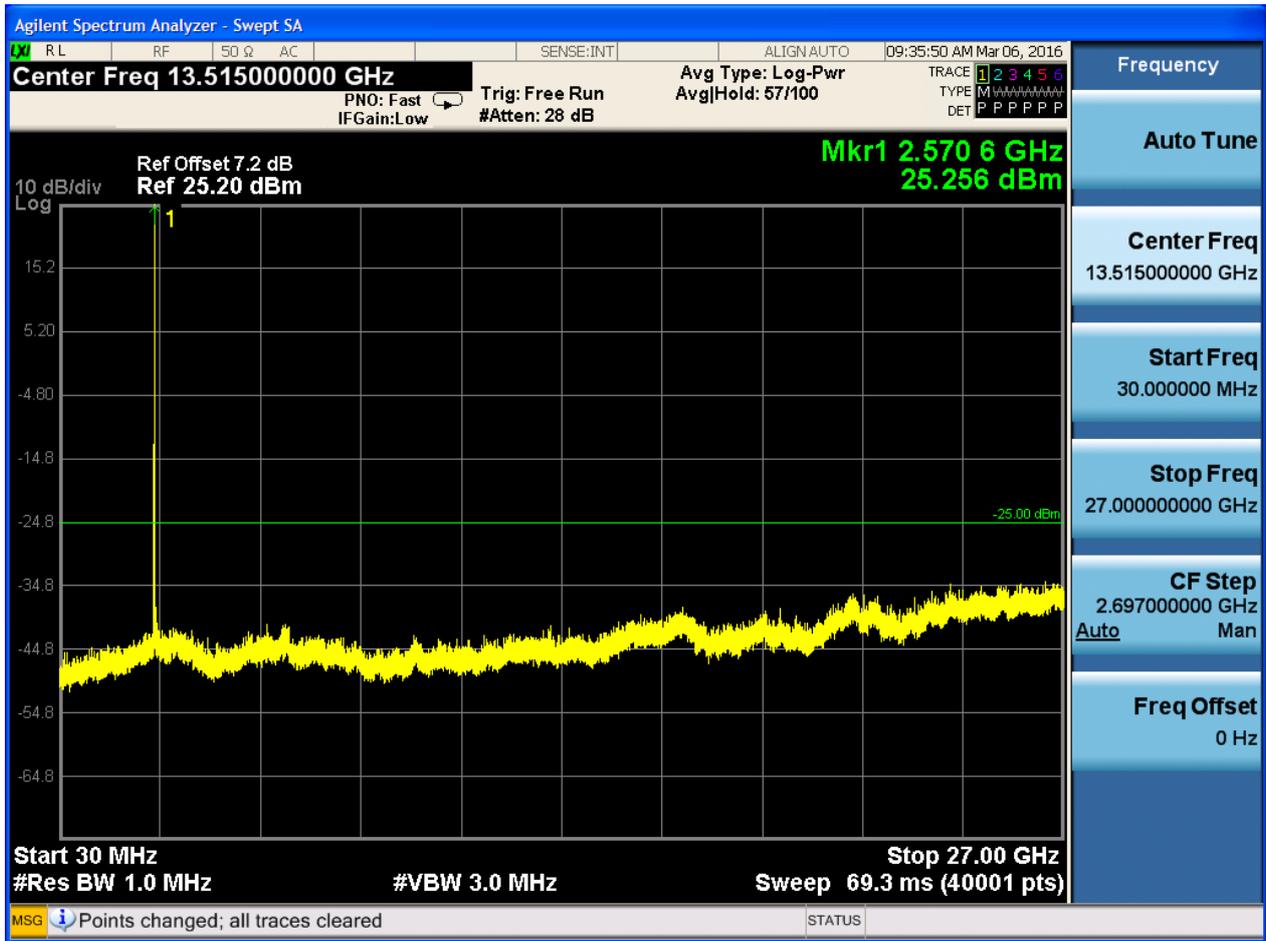
6.1.1.1.2.2 Test Channel = MCH

6.1.1.1.2.2.1 Test RB = RB1#0

6.1.1.1.2.3 Test Channel = HCH

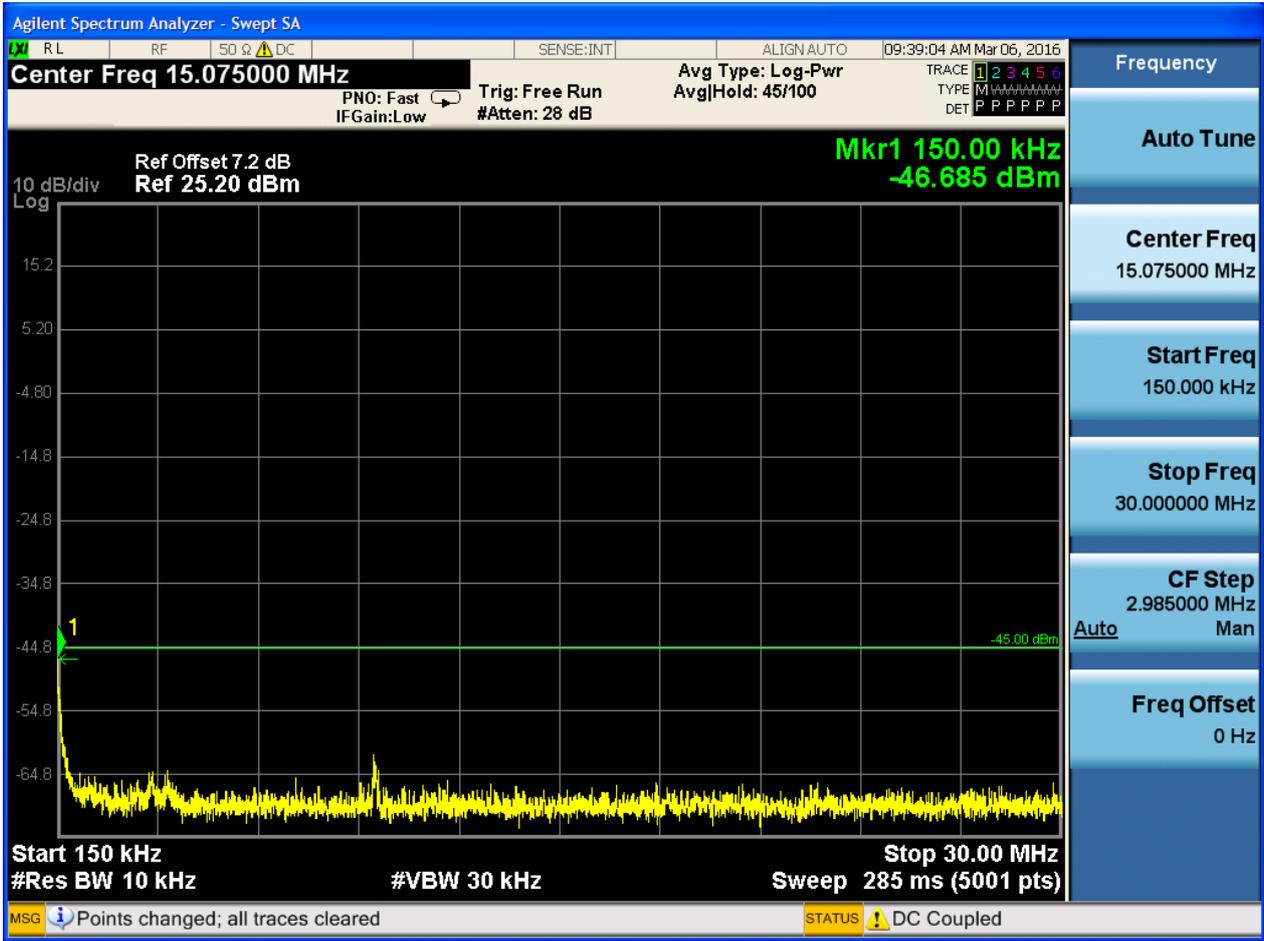### 6.1.1.1.2.3.1 Test RB = RB1#0

6.1.1.1.3 Test Bandwidth = 15

6.1.1.1.3.1 Test Channel = LCH

6.1.1.1.3.1.1 Test RB = RB1#0

6.1.1.1.3.2 Test Channel = MCH

6.1.1.1.3.2.1 Test RB = RB1#0